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*IBM Interact System Tables Data  
Dictionary*

**IBM**

**Note**

Before using this information and the product it supports, read the information in "Notices" on page 73.

This edition applies to version 10, release 1, modification 0 of IBM Interact and to all subsequent releases and modifications until otherwise indicated in new editions.

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## Chapter 1. IBM Interact Design Time System Tables

When you install the IBM® Interact design time server, you also run a series of SQL scripts to set up the required system tables in your data source that Interact needs to operate. This document provides a data dictionary describing the structure and content of the design time system tables.

### UACI\_ICBatchOffers

Contains a mapping of offers to interactive channels. The Offers for a particular IC will be added to the deployment of the IC at deploy time.

Field	Type	Length	Null?	Description
ICName	VARCHAR	64	false	Name of the interactive channel. May be any text characters, minus standard disallowed special name characters.
OfferCode1	VARCHAR	64	false	The first part of offerCode. May be any text characters, minus standard disallowed special name characters.
OfferCode2	VARCHAR	64	true	Optional second part of offerCode. May be any text characters, minus standard disallowed special name characters.
OfferCode3	VARCHAR	64	true	Optional third part of offerCode. May be any text characters, minus standard disallowed special name characters.
OfferCode4	VARCHAR	64	true	Optional fourth part of offerCode. May be any text characters, minus standard disallowed special name characters.
OfferCode5	VARCHAR	64	true	Optional fifth part of offerCode. May be any text characters, minus standard disallowed special name characters.

### UACI\_Rule

Contains the Rule information.

Field	Type	Length	Null?	Description
RuleID	INT64		false	pk, Unique ID of the Rule. Must be a globally unique positive integer within the internalIDLowerLimit and internalIDUpperLimit configuration parameter values for generated values.

Field	Type	Length	Null?	Description
RuleGroupID	INT64		false	fk, Unique ID of the RuleGroup. Must be a globally unique positive integer within the internalIDLowerLimit and internalIDUpperLimit configuration parameter values for generated values.
MarketWeight	INT32		true	Value from 1 to 100 that reflects the slider setting from the strategy page.
Disabled	INT32		true	Indicates whether this rule is active or inactive.
DisplayOrder	INT32		true	Affects the display position of this rule in the strategy page.
OfferID	INT64		false	FK, unique ID of offer referred to by this rule. Must be a globally unique positive integer within the internalIDLowerLimit and internalIDUpperLimit configuration parameter values for generated values.
ZoneID	INT64		true	FK, unique ID of zone that this rule applies to. Must be a globally unique positive integer within the internalIDLowerLimit and internalIDUpperLimit configuration parameter values for generated values.
CreateDate	DATETIME		true	Date of when this rule was first created.
CreateBy	INT32		true	Marketing Platform ID of the user who first created this rule. Must be a valid userId in the Marketing Platform database.
UpdateDate	DATETIME		true	Date of when this rule was last modified.
UpdateBy	INT32		true	Marketing Platform ID of the user who last modified this rule. Must be a valid userId in the Marketing Platform database.
PredicateID	INT64		true	FK, unique ID of predicate that is associated to this rule. Must be a globally unique positive integer within the internalIDLowerLimit and internalIDUpperLimit configuration parameter values for generated values.

### UACI\_Predicate

Contains the predicate information as defined the Advanced Rules option of the Strategy page.

Field	Type	Length	Null?	Description
PredicateID	INT64		false	PK, unique ID of predicate. Must be a globally unique positive integer within the internalIDLowerLimit and internalIDUpperLimit configuration parameter values for generated values.
Name	VARCHAR	256	true	The name of the predicate. May be any text characters, minus standard disallowed special name characters.
Description	VARCHAR	512	true	The description of predicate. My be any text characters, minus standard disallowed special name characters.
Predicate	VARCHAR	4000	true	The predicate expression. May be any text characters, minus standard disallowed special name characters.
EnableStateID	INT32		false	Flag indicating whether or not this predicate is disabled, acting as a boolean filter, or acting as a way to calculate marketing score. Values may be one of: <ul style="list-style-type: none"> <li>• 1='This is disabled'</li> <li>• 2='Use Expression as a column only'</li> <li>• 3='Use Predicate only'</li> </ul>
FolderID	INT64		true	FK, unique ID of folder that contains this predicate. This is currently not utilized and was added for future use since there is no place in the gui to manage the predicates across folders. Must be a globally unique positive integer within the internalIDLowerLimit and internalIDUpperLimit configuration parameter values for generated values.
CreateDate	DATETIME		true	The date when this predicate was first created.
CreateBy	INT32		true	Marketing Platform ID of the user who first created this predicate. Must be a valid userId in the Marketing Platform database.
UpdateDate	DATETIME		true	The date when this predicate was last modified.
UpdateBy	INT32		true	Marketing Platform ID of the user who last modified this predicate. Must be a valid userId in the Marketing Platform database.

### UACI\_PredState

A type table that contains each enumeration of a Predicate option. [ disabled; boolean filter; marketing score calculator]

Field	Type	Length	Null?	Description
EnableStateID	INT32		false	PK, unique ID enablestate. Must be a globally unique positive integer within the internalIDLowerLimit and internalIDUpperLimit configuration parameter values for generated values.
Description	VARCHAR	512	true	Description of the enable state. Values may be: <ul style="list-style-type: none"> <li>• 1='This is disabled'</li> <li>• 2='Use Expression as a column only'</li> <li>• 3='Use Predicate only'</li> </ul>

### UACI\_ProfileMap

Contains the Central Profile Map information.

Field	Type	Length	Null?	Description
ICID	INT64		false	FK, unique ID of the interactive channel. Must be a globally unique positive integer within the internalIDLowerLimit and internalIDUpperLimit configuration parameter values for generated values.
AudienceLevel	VARCHAR	64	false	The audience level that this profile represents. May be any text characters, minus standard disallowed special name characters.
PhysicalTableName	VARCHAR	64	true	The real name of the underlying database table to be used as the base profile table. May be any text characters, minus standard disallowed special name characters.
LogicalTableName	VARCHAR	64	true	The virtual name of the profile table. May be any text characters, minus standard disallowed special name characters.
ProfileData	TEXT		true	A blob that contains the profile map definition in XML form.
CreateDate	DATETIME		true	The date that this profilemap was first created.
CreateBy	INT32		true	Marketing Platform ID of the user who created this profilemap. Must be a valid userId in the Marketing Platform database.
UpdateDate	DATETIME		true	The date that this profilemap was last modified.
UpdateBy	INT32		true	Marketing Platform ID of the user who last modified this profilemap. Must be a valid userId in the Marketing Platform database.



## UACI\_RuleGroup

Contains RuleGroup information. A Rule Group is a group of rules associated to a particular segment within a Strategy.

Field	Type	Length	Null?	Description
RuleGroupID	INT64		false	PK, unique ID of the rulegroup. Must be a globally unique positive integer within the internalIDLowerLimit and internalIDUpperLimit configuration parameter values for generated values.
CellID	INT64		false	FK, unique ID of cell with which this rulegroup is associated. Must be a globally unique positive integer within the internalIDLowerLimit and internalIDUpperLimit configuration parameter values for generated values.
StrategyID	INT64		false	FK, unique ID of strategy that owns this rule group. Must be a globally unique positive integer within the internalIDLowerLimit and internalIDUpperLimit configuration parameter values for generated values.
SegmentID	INT64		false	FK, unique ID of the segment with which this rule group is associated. Must be a globally unique positive integer within the internalIDLowerLimit and internalIDUpperLimit configuration parameter values for generated values.
DisplayOrder	INT32		true	Indicates the position in the strategy page where this rule group will be displayed.
CreateDate	DATETIME		true	Date when this rulegroup was first created.
CreateBy	INT32		true	Marketing Platform ID of the user who first created this rulegroup. Must be a valid userId in the Marketing Platform database.
UpdateDate	DATETIME		true	Date when this rulegroup was last modified.
UpdateBy	INT32		true	Marketing Platform ID of the user who last modified this rulegroup. Must be a valid userId in the Marketing Platform database.
LearningMode	INT32		true	Indicates the learning mode for this rule group (that is, use marketer score or learning score to rank offers). Valid values are 1, 2, or 3.

Field	Type	Length	Null?	Description
LearningModelID	INT64		true	If LearningMode is set to use learning score, then this indicates the ID of the learning model to use.

## UACI\_DepFlowchart

Contains all the deployed flowchart objects. Records get added after each interactive channel (IC) deployment. This table is important for subsequent deployments of an IC. If a user has not made changes to the flowchart, the deployment action refers to this table to deploy the same flowchart that was deployed previously.

Field	Type	Length	Null?	Description
DeploymentID	INT64		false	FK, unique ID of deployment. Must be a globally unique positive integer within the internalIDLowerLimit and internalIDUpperLimit configuration parameter values for generated values.
FlowchartID	INT64		false	FK, unique ID of the flowchart. Must be a globally unique positive integer within the internalIDLowerLimit and internalIDUpperLimit configuration parameter values for generated values.
FlowchartName	VARCHAR	64	true	The name of the flowchart. May contain any text characters, minus standard disallowed special name characters.
AudienceLevel	VARCHAR	64	true	The audience level of the flowchart. May contain any text characters, minus standard disallowed special name characters.
SessionID	INT64		true	FK, the unique ID of the Session object that contains the flowchart. Must be a globally unique positive integer within the internalIDLowerLimit and internalIDUpperLimit configuration parameter values for generated values.
SessionName	VARCHAR	64	true	The name of the Session object that contains the flowchart. May contain any text characters, minus standard disallowed special name characters.
RequestUser	INT32		true	Marketing Platform ID of the user who issued the deployment. Must be a valid userId in the Marketing Platform database.
RequestUserName	VARCHAR	64	true	Name of user who issued the deployment. Must be a valid userId in the Marketing Platform database.

Field	Type	Length	Null?	Description
RequestTime	DATETIME		true	Timestamp of when the deployment took place.
DeployTypeID	INT32		true	Type of deployment (such as Add, Update, Remove). Must be a globally unique positive integer within the internalIDLowerLimit and internalIDUpperLimit configuration parameter values for generated values.
SerializedObject	IMAGE		true	A Java serialized object of the flowchart. Must be a binary representation of a Strategy object.

### UACI\_DepStratTab

Contains all of the deployed strategy objects. Records get added after each interactive channel (IC) deployment. This table is important for subsequent deployments of an IC. If a user has not made changes to the strategy, the deployment action refers to this table to deploy the same strategy that was deployed before.

Field	Type	Length	Null?	Description
StrategyID	INT64		false	FK, unique ID of the strategy. Must be a globally unique positive integer within the internalIDLowerLimit and internalIDUpperLimit configuration parameter values for generated values.
DeploymentID	INT64		false	FK, unique ID of a deployment. Must be a globally unique positive integer within the internalIDLowerLimit and internalIDUpperLimit configuration parameter values for generated values.
StrategyName	VARCHAR	64	true	Name of the Strategy object. May be any text characters, minus standard disallowed special name characters.
CampaignID	INT64		true	FK, unique ID of campaign that contains the strategy. Must be a globally unique positive integer within the internalIDLowerLimit and internalIDUpperLimit configuration parameter values for generated values.
CampaignName	VARCHAR	64	true	Name of the campaign that contains the strategy. May contain any text characters, minus standard disallowed special name characters.
RequestUser	INT32		true	Marketing Platform ID of the user who issued the deployment. Must be a valid userId in the Marketing Platform database.

Field	Type	Length	Null?	Description
RequestUserName	VARCHAR	64	true	Marketing Platform name of the user who issued the deployment. May contain any text characters, minus standard disallowed special name characters.
RequestTime	DATETIME		true	Timestamp of when the deployment took place.
DeployTypeID	INT32		true	Type of deployment (such as Add, Update, Remove).
SerializedObject	IMAGE		true	A Java serialized object of the strategy. Must be a binary representation of strategy object.

### UACI\_TrmtRuleInv

Contains all the treatment rules that have been deployed. Records get added after each interactive channel (IC) deployment.

Field	Type	Length	Null?	Description
TreatmentRuleID	INT64		false	PK, unique ID of the TreatmentRule. Must be a globally unique positive integer within the internalIDLowerLimit and internalIDUpperLimit configuration parameter values for generated values.
DeploymentID	INT64		false	FK, unique ID of the deployment. Must be a globally unique positive integer within the internalIDLowerLimit and internalIDUpperLimit configuration parameter values for generated values.
ICID	INT64		false	FK, unique ID of the interactive channel. Must be a globally unique positive integer within the internalIDLowerLimit and internalIDUpperLimit configuration parameter values for generated values.
ICName	VARCHAR	64	false	Name of the interactive channel. May be any text characters, minus standard disallowed special name characters.
CellID	INT64		false	FK, unique ID of the cell. Must be a globally unique positive integer within the internalIDLowerLimit and internalIDUpperLimit configuration parameter values for generated values.
CellName	VARCHAR	64	false	The name of the cell. May be any text characters, minus standard disallowed special name characters.

Field	Type	Length	Null?	Description
ZoneID	INT64		false	FK, unique ID of the zone. Must be a globally unique positive integer within the internalIDLowerLimit and internalIDUpperLimit configuration parameter values for generated values.
ZoneName	VARCHAR	64	true	Name of the zone. May be any text characters, minus standard disallowed special name characters.
StrategyID	INT64		false	FK, unique ID of the strategy. Must be a globally unique positive integer within the internalIDLowerLimit and internalIDUpperLimit configuration parameter values for generated values.
StrategyName	VARCHAR	64	false	Name of the strategy object. May be any text characters, minus standard disallowed special name characters.
OfferID	INT64		false	FK, unique ID of the offer. Must be a globally unique positive integer within the internalIDLowerLimit and internalIDUpperLimit configuration parameter values for generated values.
OfferName	VARCHAR	130	false	Name of the offer. May be any text characters, minus standard disallowed special name characters.
CampaignID	INT64		false	FK, unique ID of the campaign that contains the strategy. Must be a globally unique positive integer within the internalIDLowerLimit and internalIDUpperLimit configuration parameter values for generated values.
CampaignName	VARCHAR	64	false	Name of the campaign that contains the strategy. May be any text characters, minus standard disallowed special name characters.
CampaignCode	VARCHAR	64	true	Code of the campaign that contains the strategy. May be any text characters, minus standard disallowed special name characters.
SegmentID	INT64		true	FK, unique ID of the segment. Must be a globally unique positive integer within the internalIDLowerLimit and internalIDUpperLimit configuration parameter values for generated values.
SegmentName	VARCHAR	64	true	The name of the segment. May be any text characters, minus standard disallowed special name characters.
MarketWeight	INT32		false	The value of the Marketing Score slider, from 1 to 100.

Field	Type	Length	Null?	Description
LastUpdate	DATETIME		true	The timestamp of when the deployment occurred.
Predicate	VARCHAR	4000	true	The predicate expression, if any, for the rule. May be any text characters, minus standard disallowed special name characters.
EnableStateID	INT32		true	Advanced Rule options mode. Values can be 1='This is disabled', 2='Use Expression as a column only', or 3='Use Predicate only'.

## UACI\_DepVersion

This table stores versioned deployment object automatically generated from deployments.

Field	Type	Length	Null?	Description
DepVersionID	INT64		false	PK, unique ID of the deployment versioned object. Must be a globally unique positive integer within the internalIDLowerLimit and internalIDUpperLimit configuration parameter values for generated values.
ICID	INT64		true	FK, unique ID of the interactive channel (IC). Must be a globally unique positive integer within the internalIDLowerLimit and internalIDUpperLimit configuration parameter values for generated values.
ICName	VARCHAR	64	true	This is the same interactive channel name at the time of deployment.
VersionNumber	INT32		true	This is a sequence number automatically generated by the system for a given IC.
VersionName	VARCHAR	128	true	This is the version name user enters in the UI. It is partially generated based on ICName. May be any text characters, minus standard disallowed special name characters.
DeploymentData	IMAGE		true	Blob that contains a Java serialized version of the deployment object.
CreateDate	DATETIME		true	Date that this event was first created.
CreateBy	INT32		true	Marketing Platform name of the user who created this event. May contain any text characters, minus standard disallowed special name characters.

## UACI\_DeployOpType

A type table that contains each enumeration of a deployment operation.

Field	Type	Length	Null?	Description
DeployOpTypeID	INT32		false	PK, unique ID of the deployment state. Valid values are: <ul style="list-style-type: none"> <li>• 1=Deploy global settings only</li> <li>• 2=Deploy interactive channel only</li> <li>• 3=Deploy interactive channel with global settings</li> <li>• 4=Undeploy interactive channel</li> <li>• 5=Redeploy interactive channel only</li> <li>• 6=Redeploy interactive channel with global settings</li> </ul>
Description	VARCHAR	512	true	Description of the deployment state. Values include seed data as above, added through SQL scripts.

## UACI\_Deployment

Contains the deployment information including the status of each deployment.

Field	Type	Length	Null?	Description
DeploymentID	INT64		false	PK, unique ID of the deployment. Must be a globally unique positive integer within the internalIDLowerLimit and internalIDUpperLimit configuration parameter values for generated values.
ICID	INT64		true	fk, unique ID of the interactive channel (IC).
DeploymentStatusID	INT32		true	State of the deployment, containing one of the following values: <ul style="list-style-type: none"> <li>• 1=Initialized</li> <li>• 2=Started</li> <li>• 3=Successful</li> <li>• 4=Failed</li> </ul>
StatusDetail	VARCHAR	4000	true	A status that is XML based. The XML contains a status code, a list of error codes, and their respective parameters.
DeployTypeID	INT32		true	Specifies the type of deployment (for example, add, update, and undeploy). Values include: <ul style="list-style-type: none"> <li>• 1=NOOP</li> <li>• 2=Add</li> <li>• 3=Update</li> <li>• 4=Remove</li> </ul>

Field	Type	Length	Null?	Description
StartTime	DATETIME		true	Timestamp of when the deployment began.
EndTime	DATETIME		true	Timestamp of when the deployment ended.
IsProduction	INT32		true	Flag indicating whether this deployment was targed to a production server group.
ServerGroupName	VARCHAR	512	true	The name of the server group to which this deployment was sent.
RequestUser	INT32		true	Marketing Platform ID of the user who issued the deployment. Must be a valid userId in the Marketing Platform database.
RequestUserName	VARCHAR	64	true	Marketing Platform name of the user who issued the deployment. Must be a valid userName in the Marketing Platform database.
Description	VARCHAR	512	true	Deployment description entered in the UI during deploy/undeploy/redeploy/global deploy operations.
DepVersionID	INT64		true	This is the FK to the UACI_DepVersion.DepVersionID.
RemoteID	VARCHAR	64	true	For an interactive channel deployment with an advanced event pattern, this is the corresponding Opportunity Detection deployment ID.
DeployOpTypeID	INT32		true	Name of user who issued the deployment. Values include: <ul style="list-style-type: none"> <li>• 1=Deploy global settings only</li> <li>• 2=Deploy interactive channel only</li> <li>• 3=Deploy interactive channel with global settings</li> <li>• 4=Undeploy interactive channel</li> <li>• 5=Redeploy interactive channel only</li> <li>• 6=Redeploy interactive channel with global settings</li> </ul>

### UACI\_DepStratQueue

This is a staging table that holds Strategy objects that are marked for deployment. When a strategy is marked for deployment, a record is inserted. When the IC is deployed, the record is removed from this table.



Field	Type	Length	Null?	Description
StrategyID	INT64		false	PK, unique ID of the strategy. Must be a globally unique positive integer within the internalIDLowerLimit and internalIDUpperLimit configuration parameter values for generated values.
RequestUser	INT32		true	Marketing Platform ID of the user who marked this strategy for deployment. Must be a valid userId in the Marketing Platform database.
RequestTime	DATETIME		true	Timestamp when this strategy was marked for deployment.
DeployTypeID	INT32		true	FK, indicates the type of deployment (removal, update, add). Must be a globally unique positive integer within the internalIDLowerLimit and internalIDUpperLimit configuration parameter values for generated values.

### UACI\_DepFlowQueue

This is a staging table that holds Interactive Flowchart objects that are marked for deployment. When a flowchart is marked for deployment, a record is inserted. When the interactive channel (IC) is deployed, the record is removed from this table.

Field	Type	Length	Null?	Description
FlowchartID	INT64		false	PK, unique ID of flowchart. Must be a globally unique positive integer within the internalIDLowerLimit and internalIDUpperLimit configuration parameter values for generated values.
RequestUser	INT32		true	Marketing Platform ID of the user who marked this flowchart for deployment. Must be a valid userId in the Marketing Platform database.
RequestTime	DATETIME		true	Timestamp when this flowchart was marked for deployment.
DeployTypeID	INT32		true	FK, unique ID of deployType (add, update, undeploy). Must be a globally unique positive integer within the internalIDLowerLimit and internalIDUpperLimit configuration parameter values for generated values.

### UACI\_DeployType

A type table that contains each enumeration of a deployment type (such as add, remove, update).

Field	Type	Length	Null?	Description
DeployTypeID	INT32		false	PK, unique ID of deployType. Must be a globally unique positive integer within the internalIDLowerLimit and internalIDUpperLimit configuration parameter values for generated values.
Description	VARCHAR	512	true	Description of deployType. Values include 1=NOOP, 2=Add, 3=Update, 4=Remove.

## UACI\_EventAction

Contains a mapping of the Actions mapped to the Events.

Field	Type	Length	Null?	Description
EventActionID	INT64		false	PK, unique ID of each event action. Must be a globally unique positive integer within the internalIDLowerLimit and internalIDUpperLimit configuration parameter values for generated values.
EventID	INT64		false	FK, unique ID of Event. Must be a globally unique positive integer within the internalIDLowerLimit and internalIDUpperLimit configuration parameter values for generated values.
ActionID	INT32		false	FK, unique ID of the Action. Must be a globally unique positive integer within the internalIDLowerLimit and internalIDUpperLimit configuration parameter values for generated values.
ActionValue	INT32		false	A flag that indicates whether or not the action has been enabled for the corresponding event. A non-zero and non-null value indicates enabled.
IsAsync	INT32		false	A flag that indicates whether action has to be executed asynchronously.
ExecutionOrder	INT32		false	A number indicating the order in which this action will be executed. Values include 0, 1, ... n.
Details	CLOB		true	The information of the eligibility condition, offer selection method, and outbound channel in the format of a JSON string.

## UACI\_EventActionCondition

A table containing name value pairs that should be matched in the incoming event before executing the action.

Field	Type	Length	Null?	Description
EventActionID	INT64		false	PK, unique ID of each event action. Must be a globally unique positive integer within the internalIDLowerLimit and internalIDUpperLimit configuration parameter values for generated values.
ParamName	VARCHAR	64	false	Name part of the name-value pair (part of pk). May be any text characters, minus standard disallowed special name characters.
ParamValue	VARCHAR	255	false	Value part of the name-value pair. May be any text characters, minus standard disallowed special name characters.

### UACI\_EventActionExpr

A table containing name value pairs that should be matched in the incoming event before executing the action.

Field	Type	Length	Null?	Description
EventActionID	INT64		false	PK, unique ID of each event action. Must be a globally unique positive integer within the internalIDLowerLimit and internalIDUpperLimit configuration parameter values for generated values.
AudienceLevel	VARCHAR	64	true	Audience level from which fields are picked to be used in expression. Must be a valid audience level defined in the system.
Expression	VARCHAR	1024	true	Expression to be triggered. May be any text characters.
FieldName	VARCHAR	64	true	Optional field name to assign the result value of expression. May be any text characters, minus standard disallowed special name characters.

### UACI\_EventActionInfr

A table containing inferred events to be generated when this event occurs.

Field	Type	Length	Null?	Description
EventActionID	INT64		false	PK, unique ID of each event action. Must be a globally unique positive integer within the internalIDLowerLimit and internalIDUpperLimit configuration parameter values for generated values.

Field	Type	Length	Null?	Description
InferredEventID	INT64		false	FK to the EventID. Must be a globally unique positive integer within the internalIDLowerLimit and internalIDUpperLimit configuration parameter values for generated values.

### UACI\_EventPatternTest

A table containing test values for event pattern states within a flowchart.

Field	Type	Length	Null?	Description
FlowchartID	INT64		false	PK, unique ID of interactive flowchart. Must be a globally unique positive integer within the internalIDLowerLimit and internalIDUpperLimit configuration parameter values for generated values.
EventID	INT64		false	PK, unique ID of event pattern for which pattern state test value needs to be specified. Must be a globally unique positive integer within the internalIDLowerLimit and internalIDUpperLimit configuration parameter values for generated values.
TestValue	INT32		true	Test value of the pattern state. Values include: <ul style="list-style-type: none"> <li>• 1=True</li> <li>• 0=False</li> <li>• -1=Expired</li> <li>• -2=Disabled</li> </ul>
CreateDate	DATETIME		false	Data when this record was first inserted.
CreateBy	INT32		false	Marketing Platform ID of the user who first inserted this record. Must be a valid userId in the Marketing Platform database.
UpdateDate	DATETIME		false	Same as CreateDate.
UpdateBy	INT32		false	Same as CreateBy.

### UACI\_EventPatternItem

A table containing events used in the pattern definition. Note that when the offerContacted, offerAccepted, or offerRejected macro is added to a pattern, the name/value pair of the required offer attribute is stored in this table with the attribute name in the AttributeName column, and the expected value in AttrStringValue, AttrNumberValue, or AttrDatetimeValue column, depending on the data type.

Field	Type	Length	Null?	Description
EventID	INT64		false	PK, unique ID of the event pattern. Must be a globally unique positive integer within the internalIDLowerLimit and internalIDUpperLimit configuration parameter values for generated values.
ItemEventID	INT64		false	PK, unique ID of the event. Must be a globally unique positive integer within the internalIDLowerLimit and internalIDUpperLimit configuration parameter values for generated values.
ItemValue	INT32		false	Contains score value for weighted patterns or occurrences of the event for counter pattern.
AttributeName	VARCHAR		false	The name of the attribute or parameter to which this condition applies. The value of a single dot (.) indicates that there is no condition for this item.
AttributeDetail	INT32		false	The numeric value of AttributeName for this condition to be met. It is used to make the event pattern item unique so that a pattern can have two of the same offer event macro, but with different offer IDs. This field has the same value as the NumberValue field.
StringValue	VARCHAR		false	The expected value of AttributeName for this condition to be met. It is used when the type of this attribute or parameter is String.
NumberValue	INT32		false	The expected value of AttributeName for this condition to be met. It is used when the type of this attribute or parameter is numeric.
DatetimeValue	DATETIME		false	The expected value of AttributeName for this condition to be met. It is used when the type of this attribute/parameter is datetime.

### UACI\_EventPattern

A table containing additional information about event patterns.

Field	Type	Length	Null?	Description
EventID	INT64		false	PK, unique ID of event pattern.
PatternType	INT32		false	Type of the pattern.
IsEnabled	INT32		false	A flag that indicates whether pattern is enabled or not.

Field	Type	Length	Null?	Description
IsAsync	INT32		false	A flag that indicates whether pattern has to be evaluated asynchronously.
StartDate	DATETIME		true	The effective date of the pattern.
EndDate	DATETIME		true	The end date of the pattern.
ResetDuration	INT64		true	After pattern state becomes true, this is the time in milliseconds the pattern state remains true after that.
MatchTotal	INT32		true	Total score in the case of weighted counter pattern.
TimeDuration	INT64		true	For an advanced pattern used with Opportunity Detection, this column has time pattern time duration.
RemoteID	VARCHAR	64	true	For an advanced pattern used with Opportunity Detection, this column has the corresponding Opportunity Detection trigger ID.

## UACI\_Event

Contains the Event information

Field	Type	Length	Null?	Description
EventID	INT64		false	PK, unique ID of event.
Name	VARCHAR	64	false	Name of event.
Description	VARCHAR	512	true	Description of the event.
CategoryID	INT64		false	FK, unique ID of category, which is similar to a folder.
EventTypeID	INT32		false	FK, unique ID of eventType; tells which system event this is or if it is a userdefined event.
CreateDate	DATETIME		true	Date that this event was first created.
CreateBy	INT32		true	Unica ID of user who created the event.
UpdateDate	DATETIME		true	Date that this event was last modified.
UpdateBy	INT32		true	Unica ID of user who last modified this event.

## UACI\_EventType

Type table containing EventTypes. Each record is an enumeration of the type of events understood by the system. (eg. StartSession, GetOffers, UserDefined)

Field	Type	Length	Null?	Description
EventTypeID	INT32		false	PK, unique ID of eventType.
Name	VARCHAR	64	false	Name of eventType.

Field	Type	Length	Null?	Description
IsSystemDefined	INT32		false	Indicates whether or not this eventtype is system defined (if 1) or user defined (if 0).

## UACI\_Action

Contains the Action information.

Field	Type	Length	Null?	Description
ActionID	INT32		false	PK, unique ID of action.
Name	VARCHAR	64	true	Name of action.
Description	VARCHAR	512	true	Description of action.

## UACI\_IntFlowchart

Contains the Interactive Flowchart information - this table is really an extension of UA\_Flowchart.

Field	Type	Length	Null?	Description
FlowchartID	INT64		false	PK, unique ID of flowchart.
ICID	INT64		false	FK, unique ID of Interact Channel.
AudienceLevel	VARCHAR	64	false	The audience level of the flowchart.
LastProdDepTime	DATETIME		true	Last time this flowchart was deployed to a production server group.
RunEnable	INT32		false	Indicates whether or not this flowchart is currently deployed or about to be deployed. 0 is not deployed. 1 is deployed.
DeleteLock	INT32		false	Indicates whether or not this flowchart is deletable or not. 0 is deletable. 1 is not deletable.
EditLock	INT32		false	Indicates whether or not this flowchart may be edited. 0 is editable. 1 is not editable.
FlowchartXML	TEXT		true	The entire definition of the flowchart in XML form.
CreateDate	DATETIME		true	Date that this flowchart was first created.
CreateBy	INT32		true	Unica ID of the user who first created this flowchart.
UpdateDate	DATETIME		true	Date that this flowchart was last modified.
UpdateBy	INT32		true	Unica ID of the user who last modified this flowchart.

## UACI\_ICToSvrGroup

Contains a mapping of what server groups are linked to the ICs.

Field	Type	Length	Null?	Description
ICID	INT64		false	FK, unique ID of Interact Channel.
ServerGroupName	VARCHAR	512	true	Name of server group associated to IC.
IsProduction	INT32		true	Flag indicating whether or not this server group will server as a production server group for the corresponding IC.

## UACI\_Category

Contains the Category information. A category acts like a folder or container of events.

Field	Type	Length	Null?	Description
CategoryID	INT64		false	PK, unique ID of category.
Name	VARCHAR	64	false	Name of category.
Description	VARCHAR	512	true	Description of category.
ICID	INT64		false	FK, unique ID of interact channel.
IsSystemDefined	INT32		true	Indicates whether or not this category contains the system defined events.
CreateDate	DATETIME		true	Date that this category was first created.
CreateBy	INT32		true	Unica ID of user who first created the category.
UpdateDate	DATETIME		true	Date that this category was last modified.
UpdateBy	INT32		true	Unica ID of user who last modified this category.

## UACI\_IntPoint

Contains the interaction point information.

Field	Type	Length	Null?	Description
IPID	INT64		false	PK, unique ID of Interaction Point.
Name	VARCHAR	64	false	Name of interaction point
Description	VARCHAR	512	true	Description of interaction point.
DefaultString	VARCHAR	1024	false	Contains the default content string which is served to the client facing system on getOffers calls that do not yield any offers.
ZoneID	INT64		false	FK, unique ID of zone that this IP belongs to.
CreateDate	DATETIME		true	Date that this IP was first created.



Field	Type	Length	Null?	Description
CreateBy	INT32		true	Unica ID of user who first created this IP.
UpdateDate	DATETIME		true	Date that this IP was last modified.
UpdateBy	INT32		true	Unica ID of user who last modified this IP.

## UACI\_Zone

Contains the Zone information. A zone servers as a container of Interaction Points.

Field	Type	Length	Null?	Description
ZoneID	INT64		false	PK, unique ID of zone.
Name	VARCHAR	64	false	Name of zone.
Description	VARCHAR	512	true	Description of zone.
ICID	INT64		false	FK, unique ID of Interact Channel.
CreateDate	DATETIME		true	Date when this zone was first created.
CreateBy	INT32		true	Unica ID of user who first created this zone.
UpdateDate	DATETIME		true	Date when this zone was last modified.
UpdateBy	INT32		true	Unica ID of user who last modified this zone.
percentRandom	FLOAT		true	Percentage of time to simply randomize the rankings vs using the score.
RuleGroupResolutionType	INT32		true	Indicates how to resolve ranking offers across rule groups of conflicting learning mode.
LearningMode	INT32		true	Indicates the learning mode for this rule group (ie., use marketer score or learning score to rank offers).
LearningModelID	INT64		true	If learningmode is to use learning score, then this indicates the id of the learning model to use.

## UACI\_Strategy

Contains the Strategy information.

Field	Type	Length	Null?	Description
StrategyID	INT64		false	PK, unique ID of strategy.
Name	VARCHAR	64	false	Name of Strategy object.
Description	VARCHAR	512	true	Description of strategy.
CampaignID	INT64		false	FK, unique ID of campaign that contains the strategy.
ICID	INT64		false	FK, unique ID of Interact Channel.

Field	Type	Length	Null?	Description
LastProdDepTime	DATETIME		true	Last time this strategy was deployed to a production server group.
RunEnable	INT32		false	Indicates whether or not this strategy is currently deployed or about to be deployed. 0 is not deployed. 1 is deployed.
DeleteLock	INT32		false	Indicates whether or not this strategy may be deleted. 0 is deletable. 1 is not deleteable.
EditLock	INT32		false	Indicates whether or not this strategy may be edited. 0 is editable. 1 is not editable.
CreateDate	DATETIME		true	Date that this strategy is first created.
CreateBy	INT32		true	Unica ID of user who first created this strategy.
UpdateDate	DATETIME		true	Date that this strategy was last modified.
UpdateBy	INT32		true	Unica ID of user who last modified this strategy.

## UACI\_IntChannel

Contains the Interact Channel information.

Field	Type	Length	Null?	Description
ICID	INT64		false	PK, unique ID of Interact channel.
Name	VARCHAR	64	false	Name of Interact channel.
Description	VARCHAR	512	true	Description of Interact channel.
OfferThreshold	INT32		false	Represents the maximum number of times the same offer can be served to the client facing system within the same session.
LastProdDepTime	DATETIME		true	Timestamp of when this IC was deployed to a production server group.
RunEnable	INT32		false	Indicates whether or not this IC has been deployed. 0 is not deployed. 1 is deployed.
DeleteLock	INT32		false	Indicates whether or not this IC is deletable. 0 is deletable. 1 is not deleteable.
EditLock	INT32		false	Indicates whether or not this ic is editable. 0 is editable. 1 is not editable.
CreateDate	DATETIME		true	Date that this IC was first created.
CreateBy	INT32		true	Unica ID of user who first created this IC.

Field	Type	Length	Null?	Description
UpdateDate	DATETIME		true	Date that this IC was last modified.
UpdateBy	INT32		true	Unica ID of user who last modified this IC.
PolicyID	INT32		true	Security policy ID for the object, which determines which ASM users are allowed to access this object. The security policy for the object is automatically set to the security policy of the folder in which the object resides if the object is created in a folder (cannot be changed by the user). The user can change the security policy of the object by moving the object to a different folder with a different security policy (user requires "move" permissions for that object in both the source and destination security policies).
ACLID	INT32		true	It is directly settable by the user only when the object is created in the top-level root folder for that object type (security policies in which the user has a role are displayed as choices).
IsActive	INT32		false	Original intention for this column is to use it as an indicator whether or not this IC is active. Currently, this column is not used anywhere.
percentRandom	FLOAT		true	Percentage of time to simply randomize the rankings vs using the score.
RuleGroupResolutionType	INT32		true	Indicates how to resolve ranking offers across rule groups of conflicting learning mode.
LearningMode	INT32		true	Indicates the learning mode for this rule group (ie., use marketer score or learning score to rank offers).
LearningModelID	INT64		true	If learningmode is to use learning score, then this indicates the id of the learning model to use.

## UACI\_DeploymentStatus

A type table that contains each enumeration of a deployment state.

Field	Type	Length	Null?	Description
DeploymentStatusID	INT32		false	PK, unique ID of deployment state.
Description	VARCHAR	512	true	Description of the deployment state.

## UACI\_SYSTAB\_Ver

Contains the version information of the current Interact Design time System table installation.

Field	Type	Length	Null?	Description
VersionID	INT64		false	PK, unique ID of version table.
VersionNumber	VARCHAR	50	false	Full version (major, minor, point, and build).
Parameters	VARCHAR	255	true	Optional parameters - this is currently not utilized and is here for future use.
CreateDate	DATETIME		false	Date when the interact design time system tables was installed.

## UACI\_Constraint

Table that contains definition of Constraints.

Field	Type	Length	Null?	Description
ConstraintID	INT64		false	Unique ID of constraint.
OfferFamilyIndicator	INT32		false	Indicates whether or not the offers for this constraint are coming from an offerList or an offer folder.
OfferFolderID	INT64		true	ID of offer folder if the offerFamilyIndicator is set as by folder.
OfferListID	INT64		true	ID of offer List if the offerfamilyindicator is set as by offer list.
icID	INT64		false	ID of IC that contains this constraints.
isEnabled	INT32		false	Flag that determines if this constraint is active. Only enabled constraints are deployed to the IC.
name	VARCHAR	64	true	Name of Constraint object.
description	VARCHAR	512	true	Description of constraint object.
maxOffers	INT32		true	Maximum number of times that offers associated to this constraint shall be served.
startTime	DATETIME		true	The time at which the constraint shall take effect - offers are constrained until the start time has been reached.
endTime	DATETIME		true	Time at which the constraint shall stop serving offers.
distInterval	INT32		true	Indicates the interval period for which the system will enforce a sub max, i.e., distribute no more than 100 offers per HOUR, o r per DAY, or Per 7 DAYS, etc.

Field	Type	Length	Null?	Description
maxPerInterval	INT32		true	The max number of offers to serve per distInterval.
allocationSize	INT32		true	Currently, this field is not utilized. System relies on a configuration setting for this. The purpose of the field was to indicate how many offers the interact runtime instance would allocate - this way the runtime instance doesn't have to always go back to the database for every distribution of the offer. The smaller the allocation, the more db hits.
CreateDate	DATETIME		true	Date that the constraint object was created.
CreateBy	INT32		true	User ID that created the constraint object.
UpdateDate	DATETIME		true	Last update time of the constraint object.
UpdateBy	INT32		true	User ID of user who last updated the constraint object.

### UACI\_DistInterval

Table that enumerates the distInterval field of the UACI\_Constraint table, indicating at what level to enforce a sub max: by hour, by day, by 7 days, by 30 days, by month.

Field	Type	Length	Null?	Description
DistInterval	INT32		false	PK, unique ID of distribution interval.
Description	VARCHAR	512	true	Description.

### UACI\_OfferFamily

Table that enumerates the offerFamily field of the UACI\_Constraint table, indicating how we allocate the family of offers associated to a constraint, either by folder or by offer list.

Field	Type	Length	Null?	Description
OfferFamilyIndicator	INT32		false	PK, unique ID of offerFamily type.
Description	VARCHAR	512	true	Description.

### UACI\_LearningModel

Table that contains the learning model object.

Field	Type	Length	Null?	Description
LearningModelID	INT64		false	PK, unique ID of learning model.
Name	VARCHAR	64	false	Name.

Field	Type	Length	Null?	Description
Description	VARCHAR	512	true	Description.
icID	INT64		false	ID of IC that contains the learning model.
isEnabled	INT32		false	Flag that indicates whether or not learning model is active.
CreateDate	DATETIME		true	Creation date of this learning model.
CreateBy	INT32		true	User ID that created the learning model object.
UpdateDate	DATETIME		true	Last update time of the learning model object.
UpdateBy	INT32		true	User ID that last updated the learning model object.

### UACI\_LModelAttr

Table that contains the attributes for each learning model object.

Field	Type	Length	Null?	Description
LearningModelAttrID	INT64		false	PK, unique ID of learningmodel attribute.
LearningModelID	INT64		false	ID of learning model that contains this attribute.
Name	VARCHAR	64	false	Name of attribute which this record represents.

### UACI\_LearningMode

Table that enumerates the learningMode: 1) learningmode not set 2) use marketer score 3) use learning score.

Field	Type	Length	Null?	Description
LearningMode	INT32		false	Indicates whether engine should use the learning score or the marketer score in ranking offers.
Description	VARCHAR	512	true	Description.

### UACI\_RGResolution

Table that enumerates the options for resolving rulegroup conflicts wrt learning.

Field	Type	Length	Null?	Description
RuleGroupResolutionType	INT32		false	Indicates how to resolve ranking offers across rule groups of conflicting learning mode.
Description	VARCHAR	512	true	Description.

## UACI\_OfferTblType

Table that enumerates the type of table driven features supported by the InteractList processbox.

Field	Type	Length	Null?	Description
offerTblTypeID	INT32		false	Indicates the type of table driven feature that is defined.
name	VARCHAR	64	true	Name of the table driven feature (white list, black list, global offers, and offersBySQL).
description	VARCHAR	512	true	Description.

## UACI\_OffersByTbl

Table that contains the config info for WhiteList, blacklist and global offers.

Field	Type	Length	Null?	Description
icID	INT64		false	IC that will have access to the this table driven offer mapping feature.
offerTblTypeID	INT32		false	Indicates which table driven feature (white list, black list, global offers).
audienceLevel	VARCHAR	64	false	Audience level that this table driven feature represents.
physicalTable	VARCHAR	64	false	Name of physical table containing the offerCodes.
isEnabled	INT32		false	Indicates whether or not this offersByTbl definition is active.
lastRunTime	DATETIME		false	Indicates the last time that the campaign batch flowchart containing the Interact List process box was run.
lastRunBy	INT32		false	User ID of who ran the campaign batch flowchart containing the Interact List process box that populates this record.
sourceFlowchartID	INT64		false	ID of the Campaign flowchart that contains the Interact List process box that populates this record.

## UACI\_OffersBySQL

Table that contains config info for OffersBySQL definitions.

Field	Type	Length	Null?	Description
icID	INT64		false	Globally unique positive integer within the internalIDLowerLimit and internalIDUpperLimit configuration parameter values for generated values.

Field	Type	Length	Null?	Description
offerSQLName	VARCHAR	64	false	May be any text characters, minus standard disallowed special name characters.
offerSQLTemplate	VARCHAR	4000	true	May be any text characters, minus standard disallowed special name characters.
physicalTable	VARCHAR	64	true	May be any text characters, minus standard disallowed special name characters.
isEnabled	INT32		false	Flag indicating whether or not offersBySQL is enabled. Values may be one of: <ul style="list-style-type: none"> <li>• 0='This is disabled'</li> <li>• 1='This is enabled'</li> </ul>
isDefault	INT32		false	Flag indicating whether or not offersBySQL is the default. Values may be one of: <ul style="list-style-type: none"> <li>• 0='This is not the default'</li> <li>• 1='This is the default'</li> </ul>
lastRunTime	DATETIME		false	The date and time on which offersBySQL was last run.
lastRunBy	INT32		false	Marketing Platform ID of the user who last ran offersBySQL. Must be a valid userId in the Marketing Platform database.
sourceFlowchartID	INT64		false	ID of the Campaign flowchart that contains the Interact List process box that populates this record.

### UACI\_RuleOfferAttrOverride

Table that overrides offer attribute values inherited from offer templates and definitions. Override values are specified by editing offer attributes for individual rules within the Interactive Strategy. Overrides defined in this table are only used during offer personalization; they are ignored when calculating offer inclusion.

Field	Type	Length	Null?	Description
RuleID	INT64		false	Unique ID of the Rule. Must be a globally unique positive integer within the internalIDLowerLimit and internalIDUpperLimit configuration parameters values for generated values.
OfferAttributeID	INT64		false	The ID of the offer attribute this rule overrides.
Expression	VARCHAR	4000	true	The macro expression overrides the inherited attribute values during offer personalization. This attribute value override is ignored when calculating offer inclusion.



## UACI\_EventPatternReset

Contains information for the event pattern reset.

Field	Type	Length	Null?	Description
ResetID	INT64		false	PK. ID of an event pattern reset.
EventID	INT64		false	FK, unique ID of Event.
ResetType	INT		false	Type of resets. <ul style="list-style-type: none"><li>• Inactivity</li><li>• PeriodicReset</li><li>• EventTrigger</li></ul>
Criteria	CLOB		true	JSON data to define reset conditions



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## Chapter 2. IBM Interact Runtime System Tables

When you install the IBM Interact runtime server, you also run a series of SQL scripts to set up the required system tables in your data source that Interact needs to operate. This document provides a data dictionary describing the structure and content of the runtime system tables.

### UACI\_CHRHAudMap

This is a table that the runtime system populates at startup time. The table contains a mapping of audience level to the various CH and RH staging tables. Since the staging tables are per audience level, and must be customized, this table will serve as a resource for the ETL process running on the design time side to determine the name of the staging tables on the runtime side.

Field	Type	Length	Null?	Description
AudienceLevel	VARCHAR	64	false	PK, audience level (such as Customer, HH) that is configured for the system. Can be any text characters, minus standard disallowed special name characters.
CHOfferAttribTable	VARCHAR	64	false	Name of Contact Hist Offer Attribute staging table for the given audience level.
CHStagingTable	VARCHAR	64	false	Name of Contact History Staging table for the given audience level.
RHStagingTable	VARCHAR	64	false	Name of response history staging table for the given audience level.

### UACI\_EventActivity

This table contains summary statistics on what events, how many times, and when they have been posted by the client facing system.

Field	Type	Length	Null?	Description
SeqNum	INT64		false	Unique identifier for a row of this table. Must be a globally unique positive integer within the internalIDLowerLimit and internalIDUpperLimit configuration parameter values for generated values.
ICID	INT64		false	fk, unique ID of Interact Channel. Must be a globally unique positive integer within the internalIDLowerLimit and internalIDUpperLimit configuration parameter values for generated values.

Field	Type	Length	Null?	Description
ICName	VARCHAR	64	false	Name of Interact channel. Can be any text characters, minus standard disallowed special name characters.
TimeID	INT64		true	fk, reference to the time at which this event occurred.
DateID	INT64		true	fk, reference to the data at which this event occurred.
EventID	INT64		false	Unique ID of the event. Must be a globally unique positive integer within the internalIDLowerLimit and internalIDUpperLimit configuration parameter values for generated values
EventName	VARCHAR	64	false	The name of the event. Can be any text characters, minus standard disallowed special name characters.
Occurrences	INT64		false	Count of how many times the event occurred during this time.
CategoryID	INT64		false	Unique ID of the category that contains the event. Must be a globally unique positive integer within the internalIDLowerLimit and internalIDUpperLimit configuration parameter values for generated values.
CategoryName	VARCHAR	64	false	Name of the category. Can be any text characters, minus standard disallowed special name characters.

### UACI\_EligStat

This table contains summary statistics on Eligible Offers and serves as the data source for the reports that show Eligible Offer statistics. A count is kept per Interaction Point (IP), Offer, and Cell.

Field	Type	Length	Null?	Description
SeqNum	INT64		false	Unique identifier for a row of this table. Must be a globally unique positive integer within the internalIDLowerLimit and internalIDUpperLimit configuration parameter values for generated values.
ICID	INT64		false	fk, unique ID of Interact Channel. Must be a globally unique positive integer within the internalIDLowerLimit and internalIDUpperLimit configuration parameter values for generated values.
ICName	VARCHAR	64	false	The name of the Interact Channel.

Field	Type	Length	Null?	Description
OfferID	INT64		false	fk, unique ID of the offer. Must be a globally unique positive integer within the internalIDLowerLimit and internalIDUpperLimit configuration parameter values for generated values.
OfferName	VARCHAR	130	false	The name of the offer. Can be any text characters, minus standard disallowed special name characters.
TimeID	INT64		true	fk, reference to the time at which this eligibleStat occurred.
DateID	INT64		true	fk, reference to the data at which this eligibleStat occurred.
CellID	INT64		false	fk, unique ID of the cell. Must be a globally unique positive integer within the internalIDLowerLimit and internalIDUpperLimit configuration parameter values for generated values.
CellName	VARCHAR	64	false	The name of the cell. Can be any text characters, minus standard disallowed special name characters.
CellCode	VARCHAR	64	false	The code of the cell. Can be any text characters, minus standard disallowed special name characters.
IPID	INT64		false	ID of the interaction point. Must be a globally unique positive integer within the internalIDLowerLimit and internalIDUpperLimit configuration parameter values for generated values.
IPName	VARCHAR	64	false	The name of the interaction point. Can be any text characters, minus standard disallowed special name characters.
EligibleOpps	INT64		false	Count of the eligible opportunities for the offer/cell/IP during this time.
CampaignID	INT64		false	ID of the associated campaign. Must be a globally unique positive integer within the internalIDLowerLimit and internalIDUpperLimit configuration parameter values for generated values.

### UACI\_CHOfferAttrib

This table serves as a staging area for the logging of Contact history Offer attributes. This table is dimensioned off of the UACI\_CHStaging table. The Contact History service will append to this table. The ETL process running from the design time environment will process the records in this table. The ETL process will also remove those records that it successfully processes.

Field	Type	Length	Null?	Description
ContactID	INT64		false	FK, unique ID of the contact inserted into the UACI_CHStaging table. Must be a globally unique positive integer within the internalIDLowerLimit and internalIDUpperLimit configuration parameter values for generated values.
AttributeID	INT64		false	ID of the attribute (from UA_AttributeDef). Must be a globally unique positive integer within the internalIDLowerLimit and internalIDUpperLimit configuration parameter values for generated values
StringValue	VARCHAR	512	true	The value of the attribute, if the attribute type is a string.
NumberValue	FLOAT		true	The value of the attribute, if the attribute type is a number.
DateTimeValue	DATETIME		true	The value of the attribute, if the attribute type is a datetime.

### UACI\_CHStaging

This table serves as a staging area for the logging of Contact history records. The Contact History service will append to this table. The ETL process running from the design time environment will process the records in this table. The ETL process will also remove those records that it successfully processes.

Field	Type	Length	Null?	Description
ContactID	INT64		false	Unique identifier for a row of this table. Must be a globally unique positive integer within the internalIDLowerLimit and internalIDUpperLimit configuration parameter values for generated values.
TreatmentCode	VARCHAR	512	false	Generated treatment code. Must be a string generated based on cell ID, offer ID, and offer parameters.
CampaignID	INT64		true	Unique ID of the campaign that contains the cell for which this contact was made. Must be a globally unique positive integer within the internalIDLowerLimit and internalIDUpperLimit configuration parameter values for generated values.
OfferID	INT64		true	Unique ID of the offer. Must be a globally unique positive integer within the internalIDLowerLimit and internalIDUpperLimit configuration parameter values for generated values.

Field	Type	Length	Null?	Description
CellID	INT64		true	Unique ID of the cell. Must be a globally unique positive integer within the internalIDLowerLimit and internalIDUpperLimit configuration parameter values for generated values.
CustomerID	INT64		true	The audience ID.
ContactDate	DATETIME		true	The date that the contact was made.
ExpirationDateTime	DATETIME		true	Expiration date of the offer.
EffectiveDateTime	DATETIME		true	Effective date of the offer.
ContactType	INT32		true	Contact that maps to the contactStatusID in UA_ContactStatus (0: UNDEFINED, 1: CONTACTED).
UserDefinedFields	CHAR	18	true	This field represents an arbitrary field customizable by the user. Can be any valid value of any database type except for blobs and clobs.
Mark	INT64		false	Used by the system to determine which records have been processed by the ETL. Valid values are NULL, -1, 0, 2.
RTSelectionMethod	INT32		true	This method indicates how the offer was selected by the learning algorithm in the original contact. This is useful for lift reports. Valid values include: <ul style="list-style-type: none"> <li>• NO_LEARNING_ENABLED=0</li> <li>• RANDOM_SELECTION=1</li> <li>• BUILT_IN_LEARNING=2</li> <li>• EXTERNAL_LEARNING=3</li> </ul>
RTLearningMode	INT32		true	Indicates whether a learning score was used or a marketer score was used in the ranking of this treatment (2: marketerScore, 3: learningScore).
RTLearningModelID	INT64		true	If a learning score was used, this indicates the ID of the learning model used. If 0, then the learning model used is the globally defined learning model. Must be a globally unique positive integer within the internalIDLowerLimit and internalIDUpperLimit configuration parameter values for generated values

## UACI\_RHStaging

This table serves as a staging area for Response History (RH). The Response History service will append to this table. The ETL process running from the design

time environment will process the records in this table. The ETL process will also remove those records that it successfully processes.

Field	Type	Length	Null?	Description
SeqNum	INT64		false	Unique identifier for a row of this table. Must be a globally unique positive integer within the internalIDLowerLimit and internalIDUpperLimit configuration parameter values for generated values.
TreatmentCode	VARCHAR	512	true	Generated treatment code. This value is a string generated based on cell ID, offer ID, and offer parameters.
CustomerID	INT64		true	This field represents the audience ID.
ResponseDate	DATETIME		true	Timestamp when the response was posted.
ResponseType	INT32		true	Type of response of value Undefined(0), Accept(1), or Reject(2).
ResponseTypeCode	VARCHAR	64	true	A particular code of the response type. For valid values, see ResponseTypeCode in the UA_UsrResponseType table in the IBM Campaign System Tables guide.
Mark	INT64		false	Field used by the system to determine which records have been processed by the ETL. Possible values are NULL, -1, 0, 2.
UserDefinedFields	CHAR	18	true	This field represents an arbitrary field customizable by the user. Can be any valid value of any database type except for blobs and clobs.
RTSelectionMethod	INT32		true	This method indicates how the offer was selected by the learning algorithm in the original contact. This is useful for lift reports. Valid values are: <ul style="list-style-type: none"> <li>• NO_LEARNING_ENABLED=0</li> <li>• RANDOM_SELECTION=1</li> <li>• BUILT_IN_LEARNING=2</li> <li>• EXTERNAL_LEARNING=3</li> </ul>
RTLerningMode	INT32		true	Indicates whether a learning score was used or a marketer score was used in the ranking of this treatment (2: marketerScore, 3:learningScore).



Field	Type	Length	Null?	Description
RTLearningModelID	INT64		true	If a learning score was used, this will indicate the ID of the learning model used. If 0, then the learning model used is the globally defined learning model. Must be a globally unique positive integer within the internalIDLowerLimit and internalIDUpperLimit configuration parameter values for generated values.

## UA\_Time

This table holds time information identifying information about the hours and minutes for a particular time. It is used to facilitate reporting. This table must be populated as part of the implementation setup.

Field	Type	Length	Null?	Description
TimeID	INT64		false	Unique identifier for a row of this table.
Hour	INT32		true	The hour of the specified time.
Minute	INT32		true	The minute of the specified time.

## UA\_Calendar

This table holds calendar information identifying information about calendar quarters, days of the week, first and last days of the week, etc. It is used to facilitate reporting over time. It is expected that this table will be customized by customers during implementation. It is the responsibility of the implementation to ensure that dates referenced in Contact history are contained in the time span covered by this table.

Field	Type	Length	Null?	Description
DateID	INT64		false	Unique identifier for a row of this table.
Year	INT32		false	Four-digit year for the date.
FiscalYear	INT32		false	Four-digit fiscal year for the date.
Quarter	INT32		false	Calendar quarter in which the date falls (Q1 being Jan. 1st through March 31st).
FiscalQuarter	INT32		true	Calendar quarter in which the date falls.
Month	INT32		false	Month in which the date falls.
WeekOfYear	INT32		false	Week in which the date falls.
WeekOfMonth	INT32		false	Which week within a month a date falls.
DayOfYear	INT32		false	Which day of the year a date falls.
DayOfMonth	INT32		false	Which day of the month a date falls.

Field	Type	Length	Null?	Description
DayOfWeek	INT32		false	Which day of the week a date falls.
ActualDate	DATETIME		false	The date represented in this row.
FirstDayOfWeek	DATETIME		false	The first day of the week in which this date falls.
LastDayOfWeek	DATETIME		false	The last day of the week in which this date falls.

### UACI\_DefaultedStat

This table contains summary statistics per interaction point (IP) of how often a visitor was not given any offers but instead served the default string of the IP. This table is consumed by the Reporting system.

Field	Type	Length	Null?	Description
SeqNum	INT64		false	Unique ID for this table.
TimeID	INT64		true	fk, reference to the time at which this defaultStat occurred.
DateID	INT64		true	fk, reference to the data at which this defaultStat occurred.
SegmentID	INT64		true	This is left at 0. Originally, the data in this table was by segment, but that was a design flaw. The counts inserted into this table are by the visit, and not by segment. Must be a globally unique positive integer within the internalIDLowerLimit and internalIDUpperLimit configuration parameter values for generated values.
SegmentName	VARCHAR	64	true	Left as NULL. See above.
IPID	INT64		true	fk, unique ID of the interaction point. Must be a globally unique positive integer within the internalIDLowerLimit and internalIDUpperLimit configuration parameter values for generated values
IPName	VARCHAR	64	true	The name of the interaction point. May be any text characters, minus standard disallowed special name characters.
Occurrences	INT64		true	Number of times the defaultstats was served during this time period for the associated interaction point.
ICID	INT64		false	fk, The unique ID of the interactive channel.

## UACI\_RTDeployment

This table will contain all the deployments ever deployed to the runtime system. The runtime system will load all active deployments from this table into memory at startup. During deployment, a record is added to this table.

Field	Type	Length	Null?	Description
RTDeploymentID	INT64		false	PK, Unique ID of the deployment. This ID matches the deployment ID in UACI_Deployment. Must be a globally unique positive integer within the internalIDLowerLimit and internalIDUpperLimit configuration parameter values for generated values.
ICID	INT64		false	fk Unique ID of the interactive channel. Must be a globally unique positive integer within the internalIDLowerLimit and internalIDUpperLimit configuration parameter values for generated values
DeploymentData	IMAGE		true	Blob that contains a Java serialized version (binary representation) of the deployment object.
RTDepStatusID	INT32		false	fk, Unique ID of the status of this deployment. <ul style="list-style-type: none"> <li>• 1=Initialized</li> <li>• 2=Started</li> <li>• 3=Successful</li> <li>• 4=Failed/Cancelled</li> </ul>
DeploymentVersion	INT64		false	The Java serialization version of the deployment object. This column is useful only for debugging issues where the system is not able to deserialize the deployment data object.
CreateDate	DATETIME		true	Data when this rtdeployment record was first inserted.
CreateBy	INT32		true	ID of the user who initiated the deployment. Must be a valid userId in the Marketing Platform database.
UpdateDate	DATETIME		true	Same as CreateDate.
UpdateBy	INT32		true	Same as CreateBy.
Version	VARCHAR	64	false	Full version of the Interact runtime installation that inserted this deployment record in the form of a string showing major, minor, point, and build number.
IsActive	INT32		false	Flag that indicates whether a deployment should be active or not. A deployment becomes inactive it was undeployed.

## UACI\_RTDepGlobal

This table will contain all the global deployments ever deployed to the runtime system. The runtime system will load the latest deployment from this table into memory at startup. During deployment that contains global settings, a record is added to this table.

Field	Type	Length	Null?	Description
RTDepGlobalID	INT64		false	PK, Unique ID of the deployment, which matches the deployment ID in UACI_Deployment. Must be a globally unique positive integer within the internalIDLowerLimit and internalIDUpperLimit configuration parameter values for generated values.
DeploymentData	IMAGE		true	Blob that contains a Java serialized version (binary representation) of the Deployment object.
RTDepStatusID	INT32		false	fk, Unique ID of the status of this deployment. <ul style="list-style-type: none"><li>• 1=Initialized</li><li>• 2=Started</li><li>• 3=Successful</li><li>• 4=Failed/Cancelled</li></ul>
CreateDate	DATETIME		true	Date when this rtdeployment record was first inserted.
CreateBy	INT32		true	User ID of the user who initiated the deployment.
UpdateDate	DATETIME		true	Same as CreateDate.
UpdateBy	INT32		true	Same as CreateBy.

## UACI\_RTDepStatus

Type table containing Deployment states. Each record is an enumeration of the type of deployment status understood by the system.

Field	Type	Length	Null?	Description
RTDepStatusID	INT32		false	Unique ID of the deployment status. <ul style="list-style-type: none"><li>• 1=Initialized</li><li>• 2=Started</li><li>• 3=Successful</li><li>• 4=Failed/Cancelled</li></ul>
Description	VARCHAR	1024	true	Description of the deployment status.

## UACI\_IdsByType

This table contains the next valid ID for various object types (for the Primary key to be used for a new row to be inserted in the CH and RH staging tables). These

are used by the system to generate globally unique IDs in the system and prevent the need for uniqueness checking. This table maintains a counter for each type of the object (table). Every time a new row is created, the current value of the counter is used for the primary key, and the counter is incremented.

Field	Type	Length	Null?	Description
TypeID	INT64		false	Unique identifier for the specific type of object. Must be a globally unique positive integer within the internalIDLowerLimit and internalIDUpperLimit configuration parameter values for generated values.
NextID	INT64		false	Next available ID for the object. Must be a globally unique positive integer within the internalIDLowerLimit and internalIDUpperLimit configuration parameter values for generated values.

### UACI\_SOType

A type table that contains each enumeration of a score override type.

Field	Type	Length	Null?	Description
OverrideTypeID	INT32		true	Indicates whether or not a record in the ScoreOverride table should be used for overriding existing candidate offers OR if it should be used in an additive (whitelist) manner as well. If 0 or NULL, then the system will only use the record for overriding the score of any matching treatment in the candidate list. If 1, then the system will add to the candidate list if it doesn't already exist. <ul style="list-style-type: none"> <li>• 0=Override Offer Score, only if the offer exists in candidate list of offers</li> <li>• 1=Override Offer Score, only if offer does not exist in candidate list of offers</li> </ul>
Name	VARCHAR	64	true	Name of the override type.
Description	VARCHAR	512	true	Description of the override type.

### UACI\_TrackingType

A type table that contains each enumeration of a tracking type (such as byTreatment, byOfferID, and so on). User can add customer specific/alternate codes to this table.

Field	Type	Length	Null?	Description
TrackingCodeType	INT32		false	pk, Unique ID of each tracking code type, of a value of 1,2 and up.
Name	VARCHAR	64	false	Name of tracking code type, where 1=Treatment Code, 2=Offer Code.
Description	VARCHAR	512	true	Description of tracking code type, where 1=UACI Generated Treatment Code, 2=UAC Campaign Offer Code.

### UACI\_RUNTAB\_Ver

Contains the version information of the current Interact Runtime System table installation.

Field	Type	Length	Null?	Description
VersionID	INT64		false	pk, Unique ID of version table. Must be a globally unique positive integer within the internalIDLowerLimit and internalIDUpperLimit configuration parameter values for generated values.
VersionNumber	VARCHAR	50	false	Full version (major, minor, point, and build).
Parameters	VARCHAR	255	true	Optional parameters. This field is currently not used and is here for future use.
CreateDate	DATETIME		false	Date when the Interact runtime system tables were installed.

### UACI\_SvcTableLock

This is a table that is used like a mutex to synchronize the processing across the RH and CH staging tables. The two modules that honor the mutex are the ETL process and the ExternalLoader feature.

Field	Type	Length	Null?	Description
TableName	VARCHAR	64	false	Represents the name of the table that the ETL process or the external loader feature will lock.

### UACI\_OfferCount

A table used to contain the number of times an offer was recommended and passed via the getOffers call. This central place will be used by the runtime instances to enforce the offer constraint rules.

Field	Type	Length	Null?	Description
ConstraintID	INT64		false	pk, Unique ID of each constraint. Must be a globally unique positive integer within the internalIDLowerLimit and internalIDUpperLimit configuration parameter values for generated values.
ICID	INT64		false	ID of the interactive channel that contains the constraint. Must be a globally unique positive integer within the internalIDLowerLimit and internalIDUpperLimit configuration parameter values for generated values.
CurrentOfferCount	INT32		false	Total number of times this offer has been "allocated" by the runtime instances for serving via the getoffers call.
LogTime	DATETIME		false	The timestamp of when this record was added to this table.

### UACI\_OfferCountLck

Field	Type	Length	Null?	Description
LogTime	DATETIME		false	The timestamp of when this record was added to this table.

### UACI\_UserEventActivity

This table contains summary statistics on what user defined events, how many times, and when they have been posted by the client-facing system for each individual audience ID.

Field	Type	Length	Null?	Description
SeqNum	INT64		false	Unique identifier for a row of this table. Must be a globally unique positive integer within the internalIDLowerLimit and internalIDUpperLimit configuration parameter values for generated values.
ICID	INT64		false	fk, Unique ID of the Interactive Channel. Must be a globally unique positive integer within the internalIDLowerLimit and internalIDUpperLimit configuration parameter values for generated values.
ICName	VARCHAR	64	false	Name of the interactive channel. Can contain any text characters, minus standard disallowed special name characters.

Field	Type	Length	Null?	Description
CategoryID	INT64		false	Unique ID of category that contains the event. Must be a globally unique positive integer within the internalIDLowerLimit and internalIDUpperLimit configuration parameter values for generated values.
CategoryName	VARCHAR	64	false	Name of category. Can contain any text characters, minus standard disallowed special name characters.
EventID	INT64		false	Unique ID of the event. Must be a globally unique positive integer within the internalIDLowerLimit and internalIDUpperLimit configuration parameter values for generated values.
EventName	VARCHAR	64	false	Name of the event. Can be any text characters, minus standard disallowed special name characters.
TimeID	INT64		true	fk, Reference to the time at which this event occurred.
DateID	INT64		true	fk, Reference to the data at which this event occurred.
Occurrences	INT64		false	Count of how many times the event occurred during this time.
CustomerID	INT64		false	The valid audience ID.

### UACI\_EventPatternState

This table contains information about the state of defined event patterns associated with the specified audience ID.

Field	Type	Length	Null?	Description
UpdateTime	INT64		false	The date and time in the format of yyyyMMddhhmmss that this record was last updated.
State	BINARY	1073741824	true	The states of all event patterns associated with this audience ID.
CustomerID	INT64		false	The valid audience ID associated with this event pattern.

### UACI\_EventPatterns

This table contains the most recent update time for each specified event pattern.

Field	Type	Length	Null?	Description
PatternID	INT64		false	The ID of this event pattern.
EventIDs	VARCHAR	200	false	The IDs of events to which this pattern subscribes.



Field	Type	Length	Null?	Description
UpdateTime	INT64		false	The date and time, in the format of yyyyMMddhhmmss, when the definition of this event pattern was last updated.
CompatibleTime	INT64		false	The date and time, in the format of yyyyMMddhhmmss, when the definition of this event pattern was last compatible.
DetailInfo	VARCHAR	2000	true	The detailed information on this pattern's definition.
ResetInfo			false	

### UACI\_TriggeredMessage

This table contains the triggered messages that will be delivered in the future and those that failed to be delivered

Field	Type	Length	Null?	Description
ID	INT64		false	The ID of this triggered message.
Channel	VARCHAR	100	false	The name of the channel via which this triggered message will be delivered.
Offer	CLOB		false	The contents of the offer to be delivered in the format of JSON. It includes the offer name, code, score, treatment code, and personalized attributes.
HandlerParam	CLOB		true	The parameters required by the channel for delivery in the format of JSON.
TimeToDeliver	DATETIME		true	The timestamp when this triggered message will be delivered. NULL means it should be delivered immediately.
Status	INT32		false	The status of this triggered message. Allowed values are: 1 - new record and will be delivered at the time of TimeToDeliver, 5 - failed in the previous delivery attempt and will not be delivered again
InsertTS	DATETIME		false	The timestamp when this triggered message record was inserted.
UpdateTS	DATETIME		true	The timestamp when this triggered message record was last updated after insertion.

### UACI\_MBeans

This table contains the names of JMX MBeans tracked by Interact when RelationalDB is chosen as an output target under Affinium | interact | monitoring | outputTargets.

Field	Type	Length	Null?	Description
ID	INT32		false	The internal ID of this MBean.
ObjectName	VARCHAR	500	false	The ObjectName of this MBean as shown on a JMX client.

### UACI\_MBeanAttributes

This table contains the names of JMX MBeans attributes tracked by Interact when RelationalDB is chosen as an output target under Affinium | interact | monitoring | outputTargets.

Field	Type	Length	Null?	Description
ID	INT32		false	The internal ID of this MBean attribute.
MBeanID	INT32		false	The ID of the MBean this attribute belongs to.
Name	VARCHAR	500	false	The name of this MBean as shown on a JMX client.

### UACI\_JmxStats

This table contains the core performance related statistics tracked by Interact when RelationalDB is chosen as an output target under Affinium | interact | monitoring | outputTargets.

Field	Type	Length	Null?	Description
ID	INT64		false	The internal ID of this record.
RTName	VARCHAR	200	true	The name of the Interact run time instance this record is associated to.
RTInstance	VARCHAR	100	true	The URL of the Interact run time instance this record is associated to.
CollectTime	DATETIME		false	The timestamp of when this record was collected by the run time instance.
Status	VARCHAR	50	true	The status of the Interact run time instance.
CPU	FLOAT		true	The average CPU usage in percentage since the last time the record was collected, of the Interact run time instance.
UsedHeap	INT64		true	The memory heap being used by this Interact run time instance in number of bytes.
UsedHeap	INT64		true	The maximum memory heap can be used by this Interact run time instance in number of bytes.
ResponseTime	FLOAT		true	The average response time for all the requests since the last time the record was collected, of the Interact run time instance.

Field	Type	Length	Null?	Description
Transactions	INT32		true	The total number of requests received by this Interact run time instance since the last time the record was collected.
Transactions	INT32		true	The total number of errors reported by this Interact run time instance since the last time the record was collected.
HasDetails	INT32		false	Whether or not there are JMX details associated to this record. 1 - there are detail records in UACI_JmxStatsDetail table; 0 - no detail records

### **UACI\_JmxStatsDetail**

This table contains the JMX statistics associated to UACI\_JmcStats table.

Field	Type	Length	Null?	Description
ID	INT64		false	The internal ID of this record.
JmxAttrID	INT32		false	The ID of the JMX attribute, as stored in UACI_MBeanAttributes table, this record is associated to.
StringValue	VARCHAR	500	true	The value of the attribute, if the attribute type is a string.
NumberValue	FLOAT		true	The value of the attribute, if the attribute type is a number.
DateTimeValue	DATETIME		true	The value of the attribute, if the attribute type is a datetime.



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## Chapter 3. IBM Interact Learning Tables

When you install the IBM Interact design time server, you also run a SQL script to set up the required tables in your data source that Interact needs to run the learning service. This document provides a data dictionary describing the structure and content of the learning tables.

### UACI\_OfferTxAll

This table serves as a staging area for the summary level statistics gathered by the learning service at the offer level. The background aggregator process will merge the data in this table into the UACI\_OfferStatsAll table, and remove the processed rows from UACI\_OfferTxAll.

Field	Type	Length	Null?	Description
SeqNum	INT64		false	Unique ID for a record in this table. Must be a globally unique positive integer within the internalIDLowerLimit and internalIDUpperLimit configuration parameter values for generated values.
OfferID	INT64		true	The unique ID of the offer. Must be a globally unique positive integer within the internalIDLowerLimit and internalIDUpperLimit configuration parameter values for generated values.
AcceptCount	INT32		true	The total number of accepts for this offer that has happened since the last insert.
PresentCount	INT32		true	The total number of presents (contacts) for this offer that has happened since the last insert.
LogTime	DATETIME		true	The timestamp of when this record was added to this table.

### UACI\_AttributeValue

This table contains all the attribute values on which the system is currently learning.

Field	Type	Length	Null?	Description
AttributeName	VARCHAR	128	false	Name of the attribute on which the built-in learning algorithm will learn. Must be a valid database column name.
AttributeValue	VARCHAR	128	false	Valid value of the attribute on which the built-in learning algorithm will learn.

Field	Type	Length	Null?	Description
AttributeType	INT32		false	The datatype of the attributeValue (0:numeric, 1:string).

### UACI\_OfferStatsLck

This table serves as a mutex to prevent multiple learning aggregator processes from running concurrently.

Field	Type	Length	Null?	Description
LastMergeTimeStamp	DATETIME		false	This field represents the last time the learning aggregator successfully ran.
LastTxId	INT64		false	This represents the last seqNum of the TX table that was processed by the aggregator process. Must be a globally unique positive integer within the internalIDLowerLimit and internalIDUpperLimit configuration parameter values for generated values.
CurrentTableName	VARCHAR	100	false	The name of the table staging offer stats data is being persisted into. It is either UACI_OfferStatsTx or UACI_OfferStatsTx_2
PrevTableName	VARCHAR	100	false	The name of the table staging offer stats data is not being persisted into. It is either UACI_OfferStatsTx_2 or UACI_OfferStatsTx

### UACI\_OfferStats

This table contains the offer statistics per attribute value that will later be served as input into the naïve bayes algorithm. Reports also rely on this table to display accept probabilities.

Field	Type	Length	Null?	Description
OfferID	INT64		false	The unique ID of the offer. Must be a globally unique positive integer within the internalIDLowerLimit and internalIDUpperLimit configuration parameter values for generated values
AttributeName	VARCHAR	128	false	The name of the attribute that this record represents. Must be a valid database column name.
AttributeValue	VARCHAR	128	false	A valid string containing the value/instance of the attribute that this record represents.
AcceptCount	INT64		true	The total number of accepts for this offer given the attribute value.

Field	Type	Length	Null?	Description
PresentCount	INT64		true	The total number of presents for this offer given the attribute value.
AttributeType	INT32		false	The datatype of the attributeValue (0:numeric, 1:string).
AcceptRWA	FLOAT		true	The running percent accept for this offer given the RWA configuration.
RejectRWA	FLOAT		true	The running percent reject for this offer given the RWA configuration.
Predictability	INT32		true	A flag that indicates if the statistics for this record is useful in predicting. 0 is not predictive. 1 is predictive. Every time the aggregator is run, this value is updated.

### UACI\_OfferStatsTx

This is a staging table where the Learning service logs its contact and response occurrences. This table contains no aggregated information. The information here is processed by a background thread which will remove rows that have been processed. The data here is used to update the final table UACI\_OfferStats.

Field	Type	Length	Null?	Description
SeqNum	INT64			Unique ID of a record in this table. Must be a globally unique positive integer within the internalIDLowerLimit and internalIDUpperLimit configuration parameter values for generated values.
OfferID	INT64		true	Unique ID of an offer. Must be a globally unique positive integer within the internalIDLowerLimit and internalIDUpperLimit configuration parameter values for generated values.
AttributeName	VARCHAR	128	true	Name of the attribute that this record represents. Must be a valid database column name.
AttributeValue	VARCHAR	128	true	Value/instance of the attribute that this record represents.
AcceptCount	INT32		true	The total number of accepts for this offer given the attribute value since the last insert into this table.
PresentCount	INT32		true	The total number of presents for this offer given the attribute value since the last insert into this table.
LogTime	DATETIME		true	The timestamp of when this record was added to this table.
AttributeType	INT32		true	The data type of the attribute value (0:numeric, 1:string).

## UACI\_OfferStatsTx\_2

This is a staging table where the Learning service logs its contact and response occurrences. This table has exactly the same structure as UACI\_OfferStatsTx, and they are used to persist the staging data alternatively. Note that data is logged to this table only when built-in learning version 2 is selected in the Interact configuration.

UACI\_OfferStatsTx\_Syn is a synonym pointing to either UACI\_OfferStatsTx or UACI\_OfferStatsTx, and used as the target for persisting learning staging data.  
i\_uaciofferstatstx UACI\_OFFERSTATSTX OFFERID ATTRIBUTENAME  
ATTRIBUTEVALUE.

## UACI\_OfferStatsAll

This table contains the summary learning statistics at the offer level.

Field	Type	Length	Null?	Description
OfferID	INT64		false	The unique ID of the offer. Must be a globally unique positive integer within the internalIDLowerLimit and internalIDUpperLimit configuration parameter values for generated values
AcceptRWA	FLOAT		false	The overall RWA average across all attributes for accepts.
AcceptCount	INT64		true	The overall count across all attributes for accepts.
PresentCount	INT64		true	The overall count across all attributes for presents.

## UACI\_LRNTAB\_Ver

Contains the version information of the current learning tables installation.

Field	Type	Length	Null?	Description
VersionID	INT64		false	pk, unique ID of version table. Must be a globally unique positive integer within the internalIDLowerLimit and internalIDUpperLimit configuration parameter values for generated values.
VersionNumber	VARCHAR	50	false	Full version (major, minor, point, and build)
Parameters	VARCHAR	255	true	Optional parameters. This string value is currently not used and is here for future use.
CreateDate	DATETIME		false	The date when the Interact learning tables were installed.



## UACI\_AttributeList

Contains the list of attributes and its corresponding column information to support the "learning with Arrays" feature. The contents of the columns specified here dictate the where the system should look for values to learn on (versus just hard coding the attributes in the configuration).

Field	Type	Length	Null?	Description
AttributeName	VARCHAR	64	false	The name of the attribute which this record represents.
AttributeNameCol	VARCHAR	64	false	Fully qualified path to the column that contains the instances of the attribute name to learn on.
AttributeValCol	VARCHAR	64	false	Fully qualified path to the column that contains the instances of the attribute value to learn on.



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## Chapter 4. IBM Interact User Tables

When you install the IBM Interact runtime server, you also run a SQL script to set up the required user tables in your data source that Interact needs to operate. This document provides a data dictionary describing the structure and content of the user tables.

### UACI\_DefaultOffers

Table that contains the default offers by audience level to consider for serving. This table supports all the whitelist and offer rules columns supported in the UACI\_ScoreOverride table.

Field	Type	Length	Null?	Description
AudienceLevel	VARCHAR	64	false	This field is the audience level (eg. Customer, Household) which this record will apply to.
OfferCode1	VARCHAR	64	false	First part of offerCode.
Score	FLOAT		false	The score value to use in the default treatment.
OverrideTypeID	INT32		true	The override type which will indicate whether this record will perform whitelist feature or just an override only feature.
Predicate	VARCHAR	4000	true	The expression logic for the predicate.
FinalScore	FLOAT		true	This field represents the final score to use by the built-in learning. Essentially, it will bypass any intermediate calculations made by the built-in calculator.
CellCode	VARCHAR	64	true	The code of the cell used for reporting.
Zone	VARCHAR	64	true	The name of the zone that this record applies to. If null, any zone applies.
EnableStateID	INT32		true	The enablestate id which tells us whether any advanced rules (predicate) should be applied.

### UACI\_ScoreOverride

This table contains offers per customer id that are to be either added to the candidate list of treatments, or to override the score of existing treatments, depending on the mode specified in the OverrideTypeID column. This table supports all the features of the Strategy tab but in table form and at the audience id level (Strategy tab is only at the segment level). Additionally, users may add columns to this table; extra column data will be accessible through the learning interface.

Field	Type	Length	Null?	Description
CustomerID	INT64		false	Audience id for the audience level Customer.
OfferCode1	VARCHAR	64	false	First part of an offercode.
Score	FLOAT		false	Explicit score to use in override/whitelist, unless advanced rule is activated.
OverrideTypeID	INT32		true	The override type which will indicate whether this record will perform whitelist feature or just an override only feature.
Predicate	VARCHAR	4000	true	The expression logic for the predicate.
FinalScore	FLOAT		true	This field represents the final score to use by the built-in learning. Essentially, it will bypass any intermediate calculations made by the built-in calculator.
CellCode	VARCHAR	64	true	The code of the cell used for reporting.
Zone	VARCHAR	64	true	The name of the zone that this record applies to. If null, any zone applies.
EnableStateID	INT32		true	The enablestate id which tells us whether any advanced rules (predicate) should be applied.

### UACI\_BlackList

This is the default table designed to be used for the audience level "Customer". The table contains offers per customerId that are to be suppressed from serving to the client facing system.

Field	Type	Length	Null?	Description
CustomerID	INT64		true	Audience id for the audience level Customer.
OfferCode1	VARCHAR	64	false	First part of an offercode.

### UACI\_USRTAB\_Ver

Contains the version information of the current Interact user tables installation.

Field	Type	Length	Null?	Description
VersionID	INT64		false	PK, unique id of version table.
VersionNumber	VARCHAR	50	false	Full version (major, minor, point, and build).
Parameters	VARCHAR	255	true	Optional parameters. This is currently not utilized and is here for future use.
CreateDate	DATETIME		false	Date when the interact user based tables was installed.





## Chapter 5. IBM Interact Contact and Response History Tables

When you install the IBM Interact design time server, you also run a SQL scripts to set up the required tables in your data source that Interact needs to track contact and response history data. This document provides a data dictionary describing the structure and content of the contact and response history tables.

### UACI\_XSessResponse

This table is a staging table for cross-session responses coming in through the system. Because a cross-session response needs additional processing, the client thread that handles the posted event does the minimum, and that is to pass the response to a service which just logs to this table. A background thread will query against this table, and reconcile accordingly. Any processed records will be removed from the UACI\_XSessResponse table from that same background thread.

Field	Type	Length	Null?	Description
SeqNumber	INT64		false	Unique ID for a record in this table. Must be a globally unique positive integer within the internalIDLowerLimit and internalIDUpperLimit configuration parameter values for generated values.
ICID	INT64		false	Unique ID for the interactive channel. Must be a globally unique positive integer within the internalIDLowerLimit and internalIDUpperLimit configuration parameter values for generated values.
CustomerID	INT64		false	Audience ID for the audience level Customer.
TrackingCode	VARCHAR	64	false	A code submitted by CFS to represent the treatment to which the response should be associated.
TrackingCodeType	INT32		false	The type of TrackingCode submitted by the CFS (such as TreatmentCode, OfferCode, alternateCode). Must be 1,2 and up.
OfferID	INT64		true	Unique ID of an offer. Must be a globally unique positive integer within the internalIDLowerLimit and internalIDUpperLimit configuration parameter values for generated values.
ResponseType	INT32		false	A type that indicates whether this is an accept or reject. Valid values are Undefined(0), Accept(1), Reject(2).

Field	Type	Length	Null?	Description
ResponseTypeCode	VARCHAR	64	true	Additional code to distinguish the user-defined response type code to which this response is associated. For valid values, see ResponseTypeCode in the UA_UsrResponseType table in the IBM Campaign System Tables guide.
ResponseDate	DATETIME		false	Timestamp of the response.
Mark	INT64		true	A field used by the system to indicate a state so that the system knows which records to process. Valid values are NULL, -1, 0, 2.
UserDefinedFields	CHAR	18	true	This field represents an arbitrary field customizable by the user. Must be a globally unique positive integer within the internalIDLowerLimit and internalIDUpperLimit configuration parameter values for generated values

### UACI\_CRHTAB\_Ver

Contains the version information of the current Interact CH/RH tables installation.

Field	Type	Length	Null?	Description
VersionID	INT64		false	pk, unique id of version table. Must be a globally unique positive integer within the internalIDLowerLimit and internalIDUpperLimit configuration parameter values for generated values.
VersionNumber	VARCHAR	50	false	Full version (major, minor, point, and build)
Parameters	VARCHAR	255	false	Optional parameters. This string value is currently not used and is here for future use.
CreateDate	DATETIME		false	The date when the Interact CH/RH tables were installed.



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## Chapter 6. IBM Interact Event Pattern Report Tables

This section describes the database schema design for the IBM Interact Event Pattern report. To improve the Event Pattern report execution time, the report is designed to run on the aggregated data. The aggregation process is to collect the transactional ETL data and store it in separate tables from which the report is generated. The tables in which the aggregated data is stored are described here.

### UARI\_PATTERN\_COUNTER

This table contains the aggregated data for Counter Pattern type.

Field	Type	Length	Null?	Description
PATTERNID	BIGINT			Pattern ID
PATTERNSTATEINSTANCEIDS	BIGINT			Number of pattern state instances
TYPE	INT			Type-2 for Counter type
AUDIENCELEVEL	VARCHAR(192)			Audience level
TOTALCOUNTSCORE	BIGINT			Total count score
EXPECTEDCOUNTSCORE	BIGINT			Expected count score after which pattern is said to be triggered
COUNTSCORE	BIGINT			Count score of the event hits
MINCOUNTSCORE	BIGINT			Minimum count score value
MINROW	INT			Row indicating the minimum count data for the pattern

### UARI\_PATTERN\_MATCHALL

This table contains the aggregated data for MatchAll Pattern type.

Field	Type	Length	Null?	Description
PATTERNID	BIGINT			Pattern ID
PATTERNSTATEINSTANCEIDS	BIGINT			Number of pattern state instances
TYPE	INT			Type-1 for match All type
AUDIENCELEVEL	VARCHAR(192)			Audience level
NOOFEVENTS	BIGINT			Number of event hits for that pattern state instance
TOTALEVENTS	BIGINT			Total events in the pattern

### UARI\_PATTERN\_WC

This table contains the aggregated data for Weighted Counter Pattern type.

Field	Type	Length	Null?	Description
PATTERNID	BIGINT			Pattern ID
PATTERNSTATEINSTANCEIDS	BIGINT			Number of pattern state instances

Field	Type	Length	Null?	Description
TYPE	INT			Type-3 for weighted counter type
AUDIENCELEVEL	VARCHAR(192)			Audience level
TOTALCOUNTSCORE	BIGINT			Total count score
EXPECTEDCOUNTSCORE	BIGINT			Expected count score after which pattern is said to be triggered
COUNTSCORE	BIGINT			Count score of the event hits

## UARI\_PATTERN\_EVENTHITS

This table contains the aggregated data for Event Hits for the Patterns.

Field	Type	Length	Null?	Description
PATTERNID	BIGINT			Pattern ID
EVENTID	BIGINT			Event ID
TYPE	INT			Type may be one of the following: <ul style="list-style-type: none"> <li>• 1-MatchAll</li> <li>• 2-Counter</li> <li>• 3-Weighted Counter</li> </ul>
AUDIENCELEVEL	VARCHAR(192)			Audience level
EVENTNAME	VARCHAR(192)			Event Name
EVENTWEIGHT	BIGINT			Event weight
EVENTHITS	BIGINT			Event hits for the event

## UARI\_PROCESSED\_PATTERNS

This table tracks the processing of patterns and stores the processed time for the patterns.

Field	Type	Length	Null?	Description
PATTERNID	BIGINT			Pattern ID
PROCESSEDTIME	TIMESTAMP			Processed time for the pattern ID
REGENFLAG	CHAR(1)			Regeneration flag: <ul style="list-style-type: none"> <li>• Y-Yes (process for aggregation)</li> <li>• N-No (Do not process for aggregation)</li> </ul>
RUNID	BIGINT			Run ID
PATTERNSTYPE	VARCHAR(2)			Pattern Type: <ul style="list-style-type: none"> <li>• MA-MatchAll</li> <li>• C-Counter</li> <li>• WC-Weighted Counter</li> </ul>
PARALLEL_DEGREE	INT			Number of patterns to process in particular pattern type at a time

Field	Type	Length	Null?	Description
PROCESS_FLAG	CHAR(1)			Process flag for new/delta patterns for aggregation: <ul style="list-style-type: none"> <li>• N-New</li> <li>• U-updated</li> <li>• D-deleted</li> </ul>

## UARI\_DELTA\_PATTERNS

This table is updated by ETL table with the update/delete flag for modified patterns, and is used for identifying delta patterns.

Field	Type	Length	Null?	Description
PATTERNID	BIGINT			Pattern ID
UPDATEFLAG	CHAR(1)			Update Flag: <ul style="list-style-type: none"> <li>• U-updated</li> <li>• D-deleted</li> <li>• P-Processed</li> </ul>
PATTERNTYPE	VARCHAR(2)			Pattern Type: <ul style="list-style-type: none"> <li>• MA-MatchAll</li> <li>• C-Counter</li> <li>• WC-Weighted Counter</li> </ul>

## UARI\_RUNS

This table contains the runid, which is generated for each new run.

Field	Type	Length	Null?	Description
RUNID	BIGINT			Run ID

## UARI\_DELTA\_REFRESH\_LOG

This table logs what has been done for each run. It shows the number of patterns processed. It also captures errors, if any occur during the runs.

Field	Type	Length	Null?	Description
RUNID	BIGINT			Run ID
OBJECT	VARCHAR(100)			Name of Procedure
MESSAGE_LINE	VARCHAR(1000)			Appropriate message line for the run
TOTALPATTERNS	INT			Total number of patterns processed
PATTERNID	BIGINT			Failed Pattern ID
INSERTTIME	TIMESTAMP			Record creation time
PARALLEL_DEGREE	INT			Number of patterns to process in particular pattern type at a time

## UARI\_RUN\_LOG

This table logs all run history from the UARI\_Pattern\_Lock table.

Field	Type	Length	Null?	Description
RUNID	BIGINT			Run ID
PATTERNTYPE	VARCHAR(2)			Pattern Type <ul style="list-style-type: none"><li>• MA-MatchAll</li><li>• C-Counter</li><li>• WC-Weighted Counter</li></ul>
ISLOCK	CHAR(1)			<ul style="list-style-type: none"><li>• Y-aggregation is in process/failed</li><li>• N-aggregation completed/not started</li></ul>
STARTTIME	TIMESTAMP			Start time of aggregation run
ENDTIME	TIMESTAMP			End time of aggregation run
PARALLEL_DEGREE	INT			Number of patterns to process in particular pattern type at a time
DBMS_JOBID	BIGINT			Database job ID

## UARI\_PATTERNSTATE\_INFO

This materialized view is to get the state and audience level information for each pattern for the interactive channel (IC) and category. For Oracle and DB2 only. Because Microsoft SQL Server does not support a materialized view, this view is not included in the Microsoft SQL Server DDL scripts.

Field	Type	Length	Null?	Description
PATTERNID	INT64		false	The ID of this pattern.
PATTERNNAME	VARCHAR	64	false	The name of the pattern. Can be any text characters, minus standard disallowed special name characters.
CATEGORYID	INT64		false	The unique ID of the category that contains the pattern. Must be a globally unique positive integer within the internalIDLowerLimit and internalIDUpperLimit configuration parameter values for generated values.
CATEGORYNAME	VARCHAR	64	false	The name of the category. Can be any text characters, minus standard disallowed special name characters.
ICID	INT64		false	The unique ID of the Interact Channel to which the pattern belongs. Must be a globally unique positive integer within the internalIDLowerLimit and internalIDUpperLimit configuration parameter values for generated values.
ICNAME	VARCHAR		true	The name of the Interact Channel to which the pattern belongs.

Field	Type	Length	Null?	Description
TYPE	INT32		true	The type of pattern.
STATE	INT32		false	The current state of the pattern indicated by PatternID, from one of the following values: <ul style="list-style-type: none"> <li>• 1: pattern triggered</li> <li>• 0: not triggered</li> <li>• -1: expired</li> <li>• -2: disabled</li> </ul>
AUDIENCELEVEL	VARCHAR	128	false	The audience level associated with this pattern state instance. Must be a globally unique positive integer within the internalIDLowerLimit and internalIDUpperLimit configuration parameter values for generated values

### UARI\_PATTERN\_INFO

This view is to get the state and audience level information, along with the processed time of the aggregation process.

Field	Type	Length	Null?	Description
PATTERNID	INT64		false	The ID of this pattern.
PATTERNNAME	VARCHAR	64	false	The name of the pattern. Can be any text characters, minus standard disallowed special name characters.
CATEGORYID	INT64		false	Unique ID of the category that contains the pattern. Must be a globally unique positive integer within the internalIDLowerLimit and internalIDUpperLimit configuration parameter values for generated values.
CATEGORYNAME	VARCHAR	64	false	Name of the category. Can be any text characters, minus standard disallowed special name characters.
ICID	INT64		false	The unique ID of the Interact Channel to which the pattern belongs. Must be a globally unique positive integer within the internalIDLowerLimit and internalIDUpperLimit configuration parameter values for generated values.
ICNAME	VARCHAR	64	false	The name of the Interact Channel to which the pattern belongs.
TYPE	INT32		true	The type of pattern.

Field	Type	Length	Null?	Description
STATE	INT32		false	The current state of the pattern indicated by PatternID, from one of the following values: <ul style="list-style-type: none"> <li>• 1: pattern triggered</li> <li>• 0: not triggered</li> <li>• -1: expired</li> <li>• -2: disabled</li> </ul>
AUDIENCELEVEL	VARCHAR	128	false	The audience level associated with this pattern state instance. Must be a globally unique positive integer within the internalIDLowerLimit and internalIDUpperLimit configuration parameter values for generated values.
PROCESSEDTIME	TIMESTAMP			The time this entry was processed by the pattern state ETL.

### UARI\_PATTERN\_LOCK

This table is to ensure that there is only one run at a time in the system, and to track the parallel degree for aggregation process.

Field	Type	Length	Null?	Description
RUNID	BIGINT			Run ID
PATTERNSTYPE	VARCHAR(2)			Pattern Type: <ul style="list-style-type: none"> <li>• MA-MatchAll</li> <li>• C-Counter</li> <li>• WC-Weighted Counter</li> </ul>
ISLOCK	CHAR(1)			<ul style="list-style-type: none"> <li>• Y-aggregation is in process/failed</li> <li>• N-aggregation completed/not started</li> </ul>
STARTTIME	TIMESTAMP			Start time of the aggregation run.
ENDTIME	TIMESTAMP			End time of the aggregation run.
PARALLEL_DEGREE	INT			Number of patterns to process in particular pattern type at a time.
DBMS_JOBID	BIGINT			If this field contains the database job ID, it is to check the status of DB jobs.

### UARI\_TRIGGER\_STATE

This view is used to find the current trigger state.

Field	Type	Length	Null?	Description
TRIG_CONF				<ul style="list-style-type: none"> <li>• 0-Trigger Valid</li> <li>• 1-Trigger Invalid</li> </ul>

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## Chapter 7. IBM Interact Event Pattern ETL Tables

When you install the IBM Interact Event Pattern ETL process, you also run a SQL script to set up the required event pattern tables in your data source that Interact needs to operate. This document provides a data dictionary describing the structure and content of the event pattern tables.

### UACI\_ETLPatternEventInfo

This table contains the most recent event information for each specified event pattern, such as whether the pattern is enabled, the start and end time, and so on.

Field	Type	Length	Null?	Description
PatternEventId	INT64		false	The ID of this event pattern.
Name	VARCHAR	64	false	The name of the event pattern. Can be any text characters, minus standard disallowed special name characters.
CategoryId	INT64		false	Unique ID of the category that contains the event. Must be a globally unique positive integer within the internalIDLowerLimit and internalIDUpperLimit configuration parameter values for generated values.
CategoryName	VARCHAR	64	false	Name of the category. Can be any text characters, minus standard disallowed special name characters.
ICId	INT64		false	The unique ID of the Interact Channel to which the event pattern belongs. Must be a globally unique positive integer within the internalIDLowerLimit and internalIDUpperLimit configuration parameter values for generated values.
ICName	VARCHAR	64	false	The name of the Interact Channel to which the event pattern belongs.
SourceDB	VARCHAR	128	true	The data source from which this event pattern was transferred by the ETL process. This is usually the Interact runtime data source as specified in the ETL configuration file.
Type	INT32		true	The type of event pattern.
UpdateTime	INT64		false	The date and time in the format of yyyyMMddhhmmss that this event pattern record was last updated.
StartTime	INT64		true	The date and time in the format of yyyyMMddhhmmss at which this event pattern starts to be in effect.

Field	Type	Length	Null?	Description
EndTime	INT64		true	The date and time in the format of yyyyMMddhhmmss at which this event pattern stops being in effect.
resetDuration	INT64		true	The extended time span during which the pattern retains its true state before it resets and begins evaluating events again.
isEnabled	INT32		true	Boolean value indicating whether the event pattern is active or not.

### UACI\_ETLPatternStateItem

This table contains pattern state instance details.

Field	Type	Length	Null?	Description
PatternStateInstanceId	INT64		false	Unique ID of the event pattern state instance. Must be a globally unique positive integer within the internalIDLowerLimit and internalIDUpperLimit configuration parameter values for generated values.
EventId	INT64		false	Unique ID of the event. Must be a globally unique positive integer within the internalIDLowerLimit and internalIDUpperLimit configuration parameter values for generated values.
EventCount	INT32		false	The number of times the event has been detected.
EventWeight	INT64		true	The score (significance assigned to a specific event) for an event used in a Weighted Counter event pattern.

### UACI\_ETLPatternStateRun

This table tracks the details of each ETL run.

Field	Type	Length	Null?	Description
Starttime	DATETIME		false	The date and time in the format of yyyyMMddhhmmss that this event pattern state run began.
Endtime	DATETIME		true	The date and time in the format of yyyyMMddhhmmss that this event pattern state run was completed.



Field	Type	Length	Null?	Description
Status	INT32		false	Indicates the current status of the given ETL operation, with values matching one of the following: <ul style="list-style-type: none"> <li>• 0: Preparing</li> <li>• 1: In Progress</li> <li>• 2: Completed with failures</li> <li>• 3: Completed Successfully</li> </ul>

## UACI\_ETLPatternState

Holds pattern states instances for a given AudienceID.

Field	Type	Length	Null?	Description
PatternStateInstanceId	INT64		false	Unique ID of the event pattern state instance. Must be a globally unique positive integer within the internalIDLowerLimit and internalIDUpperLimit configuration parameter values for generated values.
AudienceId	VARCHAR	128	false	Unique ID of the audience associated with this pattern state instance. Must be a globally unique positive integer within the internalIDLowerLimit and internalIDUpperLimit configuration parameter values for generated values.
AudienceLevel	VARCHAR	64	false	The audience level to which the audience specified by AudienceID belongs.
PatternId	INT64		false	Unique ID of the event pattern associated with this ETL process. Must be a globally unique positive integer within the internalIDLowerLimit and internalIDUpperLimit configuration parameter values for generated values.
State	INT32		false	The current state of the event pattern indicated by PatternID, from one of the following values: <ul style="list-style-type: none"> <li>• 1: pattern triggered</li> <li>• 0: not triggered</li> <li>• -1: expired</li> <li>• -2: disabled</li> </ul>
TotalCountScore	INT64		false	The total number of times that the specific event has been detected. The TotalCountScore is used to determine when the event pattern is triggered.

Field	Type	Length	Null?	Description
ExpectedCountScore	INT64		false	The total number of times the specific event pattern must be detected for the event pattern to be triggered (State set to 1).
UpdateTime	INT64		false	The date and time in the format of yyyyMMddhhmmss that this pattern state ETL was last updated.
ActivationTime	INT64		true	The date and time in the format of yyyyMMddhhmmss that this pattern state ETL was activated. A value of -1 indicates that activation has not yet occurred.

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- Detailed steps to reproduce the issue.
- Related log files, session files, configuration files, and data files.
- Information about your product and system environment, which you can obtain as described in "System information."

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