



Informatica® B2B Data Exchange
10.5.3

Operational Data Store Schema Reference

Informatica B2B Data Exchange Operational Data Store Schema Reference

10.5.3

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Preface

Use the *Operational Data Store Schema Reference* to learn about the structure and content of the tables in the operational data store. Learn how you can access the information in the database to create custom reports for Dashboard applications in B2B Data Exchange or external reporting tools.

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CHAPTER 1

Operational Data Store Schema Overview

This chapter includes the following topics:

- [Operational Data Store Schema Overview, 6](#)
- [Operational Data Store Tables, 7](#)
- [Operational Data Store Structure and Relationships, 8](#)

Operational Data Store Schema Overview

The operational data store is a repository that contains aggregated information about events that B2B Data Exchange processes. B2B Data Exchange uses the information for business activity monitoring and Dashboard reports.

The operational data store schema is based on a star schema. The operational data store includes the following table types:

- **Fact tables.** Contain aggregated information that B2B Data Exchange collects about events. Fact tables store event information based on key performance indicators (KPIs). Default KPIs in B2B Data Exchange provide event processing information, such as number of events or processing time. Custom KPIs provide values for event attributes that you select to use in reports, such as sales figures or customer claim values.
- **Dimension tables.** Contain additional metadata that you can use to filter the information from the fact tables. Dimension tables store descriptive information about event properties, such as the related partner, account, or event type.
- **User access tables.** Contain information about B2B Data Exchange security restrictions for specific event dimensions. User access tables store user information according to the access role and the type of information that the users view.

B2B Data Exchange collects events from the run-time repository with the operational data store event loader. The operational data store event loader is a PowerCenter workflow that runs at predefined intervals and loads KPIs to the relevant tables.

Use the Operation Console to view the reports in the Dashboard. For information about viewing reports in the Dashboard from the Operation Console, see the *B2B Data Exchange Operator Guide*.

Operational Data Store Tables

The operational data store contains fact tables, dimension tables, and user access tables.

The following table describes the fact tables:

| Table Name | Description |
|---------------------|---|
| DX_ODS_EVENT_FACTS | Aggregated event information based on default KPIs. Default KPIs provide information about events according to the basic event properties, such as processing time or number of events. |
| DX_ODS_CUSTOM_FACTS | Aggregated event information based on custom KPIs. You create custom KPIs from event attributes that you define in the Operation Console. The attribute value may represent any numeric data that you want to aggregate, such as sales figures or the amount of insurance claims. |

The following table describes the dimension tables:

| Table Name | Description |
|-------------------------|---|
| DX_ODS_ACCOUNT | Names and identifiers of related accounts. This table also contains the parent partners for the accounts. |
| DX_ODS_CUSTOM_FACTS_EAV | Names and identifiers of event attributes that you select to use in reports. |
| DX_ODS_EVENT_STATUS | Names and identifiers of event statuses. This table also contains error and final status information. |
| DX_ODS_EVENT_TYPE | Names and identifiers of event types. |
| DX_ODS_PARTNER | Names and identifiers of related partners. This table does not contain account information. |
| DX_ODS_TIME_BREAKDOWN | Time frames and units for the event aggregation, such as the time and date on which event processing began. |

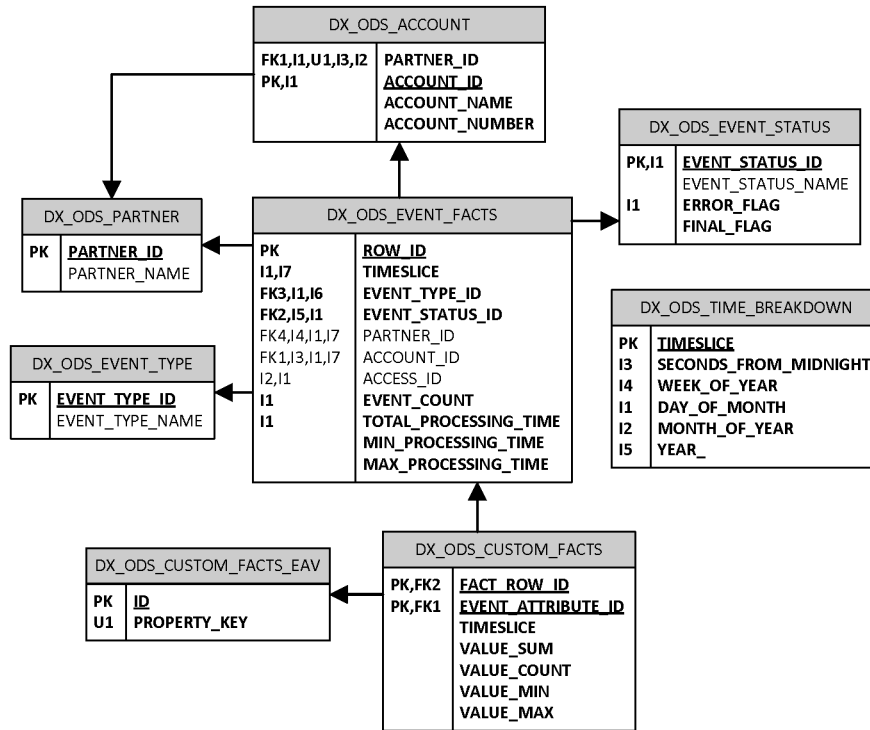
The following table describes the user access tables:

| Table Name | Description |
|------------------------|--|
| DX_ODS_USER_ACCESS | Identifiers for B2B Data Exchange users and access roles. |
| DX_ODS_USER_EVENT_TYPE | Identifiers for B2B Data Exchange users and the event types that the users can access. |
| DX_ODS_USER_SUPER | Identifiers for B2B Data Exchange users with no access restrictions. |

Operational Data Store Structure and Relationships

The operational data store contains fact tables, dimension tables, and user access tables. The fact tables typically have primary-foreign key relationships with the dimension tables. The user access tables contain security restriction information according to the B2B Data Exchange user permissions.

The following figure shows the relationships between the fact tables and the dimension tables:



In the figure, each table displays the column names and key types. Columns that function as primary keys are underlined. The connectors indicate the primary-foreign key relationship between the tables.

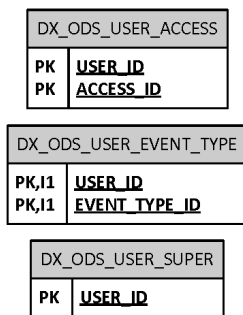
The following table describes the tables and relationships:

| Table Name | Primary Key Name | Foreign Key Usage |
|-------------------------|---|--|
| DX_ODS_CUSTOM_FACTS | - <u>FACT_ROW_ID</u> - <u>EVENT_ATTRIBUTE_ID</u> | Not used. |
| DX_ODS_EVENT_FACTS | <u>ROW_ID</u> | Used as a foreign key in the following tables: - DX_ODS_EVENT_FACTS |
| DX_ODS_ACCOUNT | <u>ACCOUNT_ID</u> | Used as a foreign key in the following tables: - DX_ODS_EVENT_FACTS |
| DX_ODS_CUSTOM_FACTS_EAV | <u>ID</u> | Used as a foreign key in the following tables: - DX_ODS_CUSTOM_FACTS. The foreign key is named <u>FACT_ROW_ID</u> . |

| Table Name | Primary Key Name | Foreign Key Usage |
|-----------------------|------------------|--|
| DX_ODS_EVENT_STATUS | EVENT_STATUS_ID | Used as a foreign key in the following tables: - DX_ODS_EVENT_FACTS |
| DX_ODS_EVENT_TYPE | EVENT_TYPE_ID | Used as a foreign key in the following tables: - DX_ODS_EVENT_FACTS |
| DX_ODS_PARTNER | PARTNER_ID | Used as a foreign key in the following tables: - DX_ODS_ACCOUNT - DX_ODS_EVENT_FACTS |
| DX_ODS_TIME_BREAKDOWN | TIMESLICE | Not used. |

In addition to the fact tables and dimension tables, the operational data store contains user access tables. There are no direct relationships between the user access tables and the other tables. You use the user access tables to restrict access to specific information in the operational data store.

The following figure shows the user access tables:



In the figure, each table displays the column names and key types. Columns that function as primary keys are underlined.

The operational data store schema contains the following user access tables:

- DX_ODS_USER_ACCESS table
- DX_ODS_USER_EVENT_TYPE table
- DX_ODS_USER_SUPER table

CHAPTER 2

Fact Tables

This chapter includes the following topics:

- [Fact Tables Overview, 10](#)
- [DX_ODS_EVENT_FACTS Table, 10](#)
- [DX_ODS_CUSTOM_FACTS Table, 12](#)

Fact Tables Overview

Fact tables contain aggregated event information based on default and custom KPIs. Default KPIs provide information about events according to the basic event properties, such as processing time or number of events. You create custom KPIs from event attributes that you define in the Operation Console. The attribute value may represent any numeric data that you want to aggregate, such as sales figures or the amount of insurance claims.

DX_ODS_EVENT_FACTS Table

The DX_ODS_EVENT_FACTS table contains aggregated information about events that B2B Data Exchange processes.

Oracle Server DX_ODS_EVENT_FACTS Table

The following table describes the columns and data types of the DX_ODS_EVENT_FACTS table in the Oracle server:

| Column Name | data type | Description |
|---------------|--------------------------|--|
| ROW_ID* | NUMBERPS(38,0), NOT NULL | Numeric identifier for the row that contains aggregated information for the events. |
| TIMESLICE | CHAR(10), NOT NULL | Start date and time of the interval during which B2B Data Exchange processed events for each time frame. |
| EVENT_TYPE_ID | NUMBERPS(19,0), NOT NULL | Unique identifier for the event type. |

| Column Name | data type | Description |
|-----------------------|--------------------------|---|
| EVENT_STATUS_ID | NUMBERPS(19,0), NOT NULL | Unique identifier for the event status. |
| PARTNER_ID | NUMBERPS(19,0) | Unique identifier for the related partner. |
| ACCOUNT_ID | NUMBERPS(19,0) | Unique identifier for the related account. |
| ACCESS_ID* | NUMBERPS(19,0) | Unique identifier for the access role. The identifier is generated and does not represent the access role name in the Operation Console |
| EVENT_COUNT | NUMBERPS(19,0), NOT NULL | Number of events that B2B Data Exchange processed during the time frame. |
| TOTAL_PROCESSING_TIME | BINARY_DOUBLE, NOT NULL | Total time that it took for B2B Data Exchange to process all events during the time frame. |
| MIN_PROCESSING_TIME | BINARY_DOUBLE, NOT NULL | Shortest time in milliseconds that it took for B2B Data Exchange to process an event. |
| MAX_PROCESSING_TIME | BINARY_DOUBLE, NOT NULL | Longest time in milliseconds that it took for B2B Data Exchange to process an event during the time frame. |
| TOTAL_DELAYED_TIME | FLOAT(53), NOT NULL | Total delay time in milliseconds for the B2B Data Exchange to process an event during the time frame. |
| * Primary key. | | |

SQL Server DX_ODS_EVENT_FACTS Table

The following table describes the columns and data types of the DX_ODS_EVENT_FACTS table in the SQL server:

| Column Name | data type | Description |
|-----------------|--------------------------|---|
| ROW_ID* | NUMERIC (38,0), NOT NULL | Numeric identifier for the row that contains aggregated information for the events. |
| TIMESLICE | DATETIME2, NOT NULL | Start date and time of the interval during which B2B Data Exchange processed events for each time frame. |
| EVENT_TYPE_ID | NUMERIC(19,0), NOT NULL | Unique identifier for the event type. |
| EVENT_STATUS_ID | NUMERIC(19,0), NOT NULL | Unique identifier for the event status. |
| PARTNER_ID | NUMERIC(19,0) | Unique identifier for the related partner. |
| ACCOUNT_ID | NUMERIC(19,0) | Unique identifier for the related account. |
| ACCESS_ID* | NUMERIC(19,0) | Unique identifier for the access role. The identifier is generated and does not represent the access role name in the Operation Console |

| Column Name | data type | Description |
|-----------------------|-------------------------|--|
| EVENT_COUNT | NUMERIC(19,0), NOT NULL | Number of events that B2B Data Exchange processed during the time frame. |
| TOTAL_PROCESSING_TIME | FLOAT(53), NOT NULL | Total time that it took for B2B Data Exchange to process all events during the time frame. |
| MIN_PROCESSING_TIME | FLOAT(53), NOT NULL | Shortest time in milliseconds that it took for B2B Data Exchange to process an event. |
| MAX_PROCESSING_TIME | FLOAT(53), NOT NULL | Longest time in milliseconds that it took for B2B Data Exchange to process an event during the time frame. |
| TOTAL_DELAYED_TIME | FLOAT(53), NOT NULL | Total delay time in milliseconds for the B2B Data Exchange to process an event during the time frame. |
| * Primary key. | | |

DX_ODS_CUSTOM_FACTS Table

The DX_ODS_CUSTOM_FACTS table contains information about values of event attributes that you select from the Operation Console to use in reports. The attribute values may represent any numeric data that you want to aggregate and use in custom Dashboard panels.

Oracle Server DX_ODS_CUSTOM_FACTS Table

The following table describes the columns and data types of the DX_ODS_CUSTOM_FACTS table in the Oracle server:

| Column Name | data type | Description |
|---------------------|--------------------------|---|
| FACT_ROW_ID* | NUMBERPS(38,0), NOT NULL | Numeric identifier for the row that contains aggregated information for the custom event attribute. |
| EVENT_ATTRIBUTE_ID* | NUMBERPS(19,0), NOT NULL | Unique identifier for the event attribute to use in reports. |
| TIMESLICE | CHAR(10), NOT NULL | Start date and time of the interval during which B2B Data Exchange processed events for each time frame. |
| VALUE_SUM | NUMBER(8), NOT NULL | Total sum of the custom event attribute values that B2B Data Exchange processed during the time frame. For example, 2,000,000 is the total amount in dollars of insurance claims that B2B Data Exchange processed in one day. |
| VALUE_COUNT | NUMBER(8), NOT NULL | Total number of the custom event attribute values that B2B Data Exchange processed during the time frame. For example, B2B Data Exchange processed 10,000 insurance claims in one day. |

| Column Name | data type | Description |
|----------------|---------------------|---|
| VALUE_MIN | NUMBER(8), NOT NULL | Lowest value that B2B Data Exchange processed during the time frame. For example, \$5,000 is the lowest insurance claim in dollars that B2B Data Exchange processed in one day. |
| VALUE_MAX | NUMBER(8), NOT NULL | Highest value that B2B Data Exchange processed during the time frame. For example, \$500,000 is the highest insurance claim in dollars that B2B Data Exchange processed in one day. |
| * Primary key. | | |

SQL Server DX_ODS_CUSTOM_FACTS Table

The following table describes the columns and data types of the DX_ODS_CUSTOM_FACTS table in the SQL server:

| Column Name | data type | Description |
|---------------------|-------------------------|---|
| FACT_ROW_ID* | NUMERIC(38,0), NOT NULL | Numeric identifier for the row that contains aggregated information for the custom event attribute. |
| EVENT_ATTRIBUTE_ID* | NUMERIC(19,0), NOT NULL | Unique identifier for the event attribute to use in reports. |
| TIMESLICE | DATETIME2, NOT NULL | Start date and time of the interval during which B2B Data Exchange processed events for each time frame. |
| VALUE_SUM | FLOAT, NOT NULL | Total sum of the custom event attribute values that B2B Data Exchange processed during the time frame. For example, 2,000,000 is the total amount in dollars of insurance claims that B2B Data Exchange processed in one day. |
| VALUE_COUNT | FLOAT, NOT NULL | Total number of the custom event attribute values that B2B Data Exchange processed during the time frame. For example, B2B Data Exchange processed 10,000 insurance claims in one day. |
| VALUE_MIN | FLOAT, NOT NULL | Lowest value that B2B Data Exchange processed during the time frame. For example, \$5,000 is the lowest insurance claim in dollars that B2B Data Exchange processed in one day. |
| VALUE_MAX | FLOAT, NOT NULL | Highest value that B2B Data Exchange processed during the time frame. For example, \$500,000 is the highest insurance claim in dollars that B2B Data Exchange processed in one day. |
| * Primary key. | | |

CHAPTER 3

Dimension Tables

This chapter includes the following topics:

- [Dimension Tables Overview, 14](#)
- [DX_ODS_ACCOUNT Table, 14](#)
- [DX_ODS_CUSTOM_FACTS_EAV Table, 15](#)
- [DX_ODS_EVENT_STATUS Table, 16](#)
- [DX_ODS_EVENT_TYPE Table, 17](#)
- [DX_ODS_PARTNER Table, 18](#)
- [DX_ODS_TIME_BREAKDOWN Table, 18](#)

Dimension Tables Overview

Dimension tables contain additional metadata that you can use to filter the information from the fact tables. Dimension tables store descriptive information about event properties, such as the related partner, account, or event type.

DX_ODS_ACCOUNT Table

The DX_ODS_ACCOUNT table contains information about accounts and the related partners in B2B Data Exchange.

Oracle Server DX_ODS_ACCOUNT Table

The following table describes the columns and data types of the DX_ODS_ACCOUNT table in the Oracle server:

| Column Name | data type | Description |
|--------------|--------------------------|--|
| PARTNER_ID | NUMBERPS(19,0), NOT NULL | Unique identifier for the related partner. |
| ACCOUNT_ID* | NUMBERPS(19,0), NOT NULL | Unique identifier for the related account. |
| ACCOUNT_NAME | VARCHAR2(255), NOT NULL | Name of the account. |

| Column Name | data type | Description |
|---|------------------------|-------------------------|
| ACCOUNT_NUMBER | VARCHAR2(255) NOT NULL | Number for the account. |
| * Primary key. Used in the DX_ODS_EVENT_FACTS table as a foreign key. | | |

SQL Server DX_ODS_ACCOUNT Table

The following table describes the columns and data types of the DX_ODS_ACCOUNT table in the SQL server:

| Column Name | data type | Description |
|---|-------------------------|--|
| PARTNER_ID | NUMERIC(19,0), NOT NULL | Unique identifier for the related partner. |
| ACCOUNT_ID* | NUMERIC(19,0), NOT NULL | Unique identifier for the related account. |
| ACCOUNT_NAME | VARCHAR(255), NOT NULL | Name of the account. |
| ACCOUNT_NUMBER | VARCHAR(255) NOT NULL | Number for the account. |
| * Primary key. Used in the DX_ODS_EVENT_FACTS table as a foreign key. | | |

DX_ODS_CUSTOM_FACTS_EAV Table

The DX_ODS_CUSTOM_FACTS_EAV table contains information about custom event attributes that you select to use in reports.

Oracle Server DX_ODS_CUSTOM_FACTS_EAV Table

The following table describes the columns and data types of the DX_ODS_CUSTOM_FACTS table in the Oracle server:

| Column Name | data type | Description |
|----------------|--------------------------|--|
| ID | NUMBERPS(19,0), NOT NULL | Unique identifier of the custom event attribute. |
| PROPERTY_KEY* | VARCHAR2(255), NOT NULL | Name of the custom event attribute. |
| * Primary key. | | |

SQL Server DX_ODS_CUSTOM_FACTS_EAV Table

The following table describes the columns and data types of the DX_ODS_CUSTOM_FACTS table in the SQL server:

| Column Name | data type | Description |
|----------------|-------------------------|--|
| ID | NUMERIC(19,0), NOT NULL | Unique identifier of the custom event attribute. |
| PROPERTY_KEY* | VARCHAR(255), NOT NULL | Name of the custom event attribute. |
| * Primary key. | | |

DX_ODS_EVENT_STATUS Table

The DX_ODS_EVENT_STATUS table contains information about the status of events that B2B Data Exchange processes.

Oracle Server DX_ODS_EVENT_STATUS Table

The following table describes the columns and data types of the DX_ODS_EVENT_STATUS table in the Oracle server:

| Column Name | data type | Description |
|---|--------------------------|---|
| EVENT_STATUS_ID* | NUMBERPS(19,0), NOT NULL | Unique identifier for the event status. |
| EVENT_STATUS_NAME | VARCHAR2(255) | Name of the event status. |
| ERROR_FLAG | NUMBERPS(1,0), NOT NULL | Indicates whether the event reached an error state. |
| FINAL_FLAG | NUMBERPS(1,0), NOT NULL | Indicates whether the event reached a final state. |
| * Primary key. Used in the DX_ODS_EVENT_FACTS table as a foreign key. | | |

SQL Server DX_ODS_EVENT_STATUS Table

The following table describes the columns and data types of the DX_ODS_EVENT_STATUS table in the SQL server:

| Column Name | data type | Description |
|-------------------|-------------------------|---|
| EVENT_STATUS_ID* | NUMERIC(19,0), NOT NULL | Unique identifier for the event status. |
| EVENT_STATUS_NAME | VARCHAR(255) | Name of the event status. |
| ERROR_FLAG | NUMERIC(1,0), NOT NULL | Indicates whether the event reached an error state. |

| Column Name | data type | Description |
|---|------------------------|--|
| FINAL_FLAG | NUMERIC(1,0), NOT NULL | Indicates whether the event reached a final state. |
| * Primary key. Used in the DX_ODS_EVENT_FACTS table as a foreign key. | | |

DX_ODS_EVENT_TYPE Table

The DX_ODS_EVENT_TYPE table contains information about the type of events that B2B Data Exchange processes.

Oracle Server DX_ODS_EVENT_TYPE Table

The following table describes the columns and data types of the DX_ODS_EVENT_TYPE table in the Oracle server:

| Column Name | data type | Description |
|---|--------------------------|---------------------------------------|
| EVENT_TYPE_ID* | NUMBERPS(19,0), NOT NULL | Unique identifier for the event type. |
| EVENT_TYPE_NAME | VARCHAR2(255) | Name of the event type. |
| * Primary key. Used in the DX_ODS_EVENT_FACTS table as a foreign key. | | |

SQL Server DX_ODS_EVENT_TYPE Table

The following table describes the columns and data types of the DX_ODS_EVENT_TYPE table in the SQL server:

| Column Name | data type | Description |
|---|-------------------------|---------------------------------------|
| EVENT_TYPE_ID* | NUMERIC(19,0), NOT NULL | Unique identifier for the event type. |
| EVENT_TYPE_NAME | VARCHAR(255) | Name of the event type. |
| * Primary key. Used in the DX_ODS_EVENT_FACTS table as a foreign key. | | |

DX_ODS_PARTNER Table

The DX_ODS_PARTNER table contains information about the partners for which B2B Data Exchange processes events.

Oracle Server DX_ODS_PARTNER Table

The following table describes the columns and data types of the DX_ODS_PARTNER table in the Oracle server:

| Column Name | data type | Description |
|---|--------------------------|--|
| PARTNER_ID* | NUMBERPS(19,0), NOT NULL | Unique identifier for the related partner. |
| PARTNER_NAME | VARCHAR2(255) | Name of the related partner. |
| * Primary key. Used in the DX_ODS_EVENT_FACTS table as a foreign key. | | |

SQL Server DX_ODS_PARTNER Table

The following table describes the columns and data types of the DX_ODS_PARTNER table in the SQL server:

| Column Name | data type | Description |
|---|-------------------------|--|
| PARTNER_ID* | NUMERIC(19,0), NOT NULL | Unique identifier for the related partner. |
| PARTNER_NAME | VARCHAR(255) | Name of the related partner. |
| * Primary key. Used in the DX_ODS_EVENT_FACTS table as a foreign key. | | |

DX_ODS_TIME_BREAKDOWN Table

The DX_ODS_TIME_BREAKDOWN table contains information about the time frames during which B2B Data Exchange processes events.

Oracle Server DX_ODS_TIME_BREAKDOWN Table

The following table describes the columns and data types of the DX_ODS_TIME_BREAKDOWN table in the Oracle server:

| Column Name | data type | Description |
|-----------------------|-------------------------|--|
| TIMESLICE* | CHAR(10), NOT NULL | Start date and time of the interval during which B2B Data Exchange processed events for each time frame. |
| SECONDS_FROM_MIDNIGHT | NUMBERPS(5,0), NOT NULL | Number of seconds from the beginning of the calendar day. |

| Column Name | data type | Description |
|----------------|-------------------------|--|
| WEEK_OF_YEAR | NUMBERPS(2,0), NOT NULL | Number of the week in the calendar year. For example, the first week of January is week 1. |
| DAY_OF_MONTH | NUMBERPS(2,0), NOT NULL | Calendar date of the day. For example, March 23rd is day 23. |
| MONTH_OF_YEAR | NUMBERPS(2,0), NOT NULL | Calendar month of the year. For example, June is month 6. |
| YEAR | NUMBERPS(5,0), NOT NULL | Calendar year, such as 2011. |
| * Primary key. | | |

SQL Server DX_ODS_TIME_BREAKDOWN Table

The following table describes the columns and data types of the DX_ODS_TIME_BREAKDOWN table in the SQL server:

| Column Name | data type | Description |
|-----------------------|-------------------------|--|
| TIMESLICE* | DATETIME2(10), NOT NULL | Start date and time of the interval during which B2B Data Exchange processed events for each time frame. |
| SECONDS_FROM_MIDNIGHT | NUMERIC(5,0), NOT NULL | Number of seconds from the beginning of the calendar day. |
| WEEK_OF_YEAR | NUMERIC(2,0), NOT NULL | Number of the week in the calendar year. For example, the first week of January is week 1. |
| DAY_OF_MONTH | NUMERIC(2,0), NOT NULL | Calendar date of the day. For example, March 23rd is day 23. |
| MONTH_OF_YEAR | NUMERIC(2,0), NOT NULL | Calendar month of the year. For example, June is month 6. |
| YEAR_ | NUMERIC(5,0), NOT NULL | Calendar year, such as 2011. |
| * Primary key. | | |

CHAPTER 4

User Access Tables

This chapter includes the following topics:

- [User Access Tables Overview, 20](#)
- [DX_ODS_USER_ACCESS Table, 20](#)
- [DX_ODS_USER_EVENT_TYPE Table, 21](#)
- [DX_ODS_USER_SUPER Table, 21](#)

User Access Tables Overview

User access tables contain information about B2B Data Exchange security restrictions for specific event dimensions. User access tables store user information according to the access role and the type of information that the users view.

DX_ODS_USER_ACCESS Table

The DX_ODS_USER_ACCESS table contains information about B2B Data Exchange users and the access level to events that the Dashboard panels display in the Operation Console.

The following table describes the columns and data types of the DX_ODS_USER_ACCESS table:

| Column Name | data type | Description |
|----------------|--------------------------|--|
| USER_ID* | NUMBERPS(19,0), NOT NULL | Unique identifier for the Operation Console user that can view specific information from the operational data store in Dashboard panels. The identifier is generated and does not represent the login name for the user. |
| ACCESS_ID* | NUMBERPS(19,0), NOT NULL | Unique identifier for the Operation Console access role. |
| * Primary key. | | |

DX_ODS_USER_EVENT_TYPE Table

The DX_ODS_USER_EVENT_TYPE table contains information about B2B Data Exchange users and the event types that they can view in the Dashboard panels of the Operation Console.

The following table describes the columns and data types of the DX_ODS_USER_EVENT_TYPE table:

| Column Name | data type | Description |
|----------------|--------------------------|--|
| USER_ID* | NUMBERPS(19,0), NOT NULL | Unique identifier for the Operation Console user that can view specific event types from the operational data store in Dashboard panels. The identifier is generated and does not represent the login name for the user. |
| EVENT_TYPE_ID* | NUMBERPS(19,0), NOT NULL | Unique identifier for the event type. |
| * Primary key. | | |

DX_ODS_USER_SUPER Table

The DX_ODS_USER_SUPER table contains information about V users that can access all of the information that the Dashboard panels display in the Operation Console.

The following table describes the columns and data types of the DX_ODS_USER_SUPER table:

| Column Name | data type | Description |
|----------------|--------------------------|--|
| USER_ID* | NUMBERPS(19,0), NOT NULL | Unique identifier for the Operation Console user that can access all of the information in the operational data store. This user is typically the B2B Data Exchange administrator. The identifier is generated and does not represent the login name for the user. |
| * Primary key. | | |

APPENDIX A

Examples

This appendix includes the following topic:

- [SQL Query Examples, 22](#)

SQL Query Examples

You access and retrieve information from the operational data store with SQL queries according to the type of report or analysis that you want to perform. The following examples show SQL queries that run on the operational data store to retrieve information for different reports.

Number of Events by Partner

Gets the total number of events that B2B Data Exchange processed during a time frame and displays the results sorted by the related partner for the event.

```
select topData.PARTNER_ID, dp.PARTNER_NAME, topData.SUM_COUNT from
  (select facts.PARTNER_ID, sum(EVENT_COUNT) as SUM_COUNT
   from DX_ODS_EVENT_FACTS facts
   where to_timestamp('2012-01-01' || '00:00:00','YYYY-MM-DD HH24:MI:SS') <=
facts.TIMESLICE
   and facts.TIMESLICE <= to_timestamp('2012-06-01' || '00:00:00','YYYY-MM-
DD HH24:MI:SS')
  )
  group by facts.PARTNER_ID
  order by SUM_COUNT desc
) topData
join DX_ODS_PARTNER dp on topData.PARTNER_ID = dp.PARTNER_ID
order by topData.SUM_COUNT desc, dp.PARTNER_NAME asc
```

The query uses the `to_timestamp` parameter that defines the event processing start and end date and time.

The following table shows an example of the query results:

| PARTNER_ID | PARTNER_NAME | SUM_COUNT |
|------------|--------------|-----------|
| 1000 | My partner A | 14781 |
| 1002 | My partner C | 12920 |
| 1001 | My partner B | 65044 |

Number of Events by Partner with Access Restrictions

Gets the total number of events that B2B Data Exchange processed during a time frame and displays the results sorted by the related partner for the event. This query also applies access restrictions by indicating which B2B Data Exchange users can view the results.

```
select topData.PARTNER_ID, dp.PARTNER_NAME, topData.SUM_COUNT from
  (select facts.PARTNER_ID, sum(EVENT_COUNT) as SUM_COUNT
   from DX_ODS_EVENT_FACTS facts
   where to_timestamp('2012-01-01' || '00:00:00','YYYY-MM-DD HH24:MI:SS') <=
   facts.TIMESLICE
   and facts.TIMESLICE <= to_timestamp('2012-06-01' || '00:00:00','YYYY-MM-
   DD HH24:MI:SS')
   and (exists (select ua.ACCESS_ID from DX_ODS_USER_ACCESS ua where
   ua.ACCESS_ID =
     facts.ACCESS_ID and ua.USER_ID = 999)
    or exists (select * from DX_ODS_USER_SUPER ua where ua.USER_ID = 999)
   )
   group by facts.PARTNER_ID
   order by SUM_COUNT desc
  ) topData
join DX_ODS_PARTNER dp on topData.PARTNER_ID = dp.PARTNER_ID
order by topData.SUM_COUNT desc, dp.PARTNER_NAME asc
```

The query uses the following parameters:

- to_timestamp. Defines the event processing start and end date and time.
- USER_ID. Numeric identifier for the B2B Data Exchange user that can view the events. In this example, you define a single user that can view the events.

The following table shows an example of the query results:

| PARTNER_ID | PARTNER_NAME | SUM_COUNT |
|------------|--------------|-----------|
| 1000 | My partner A | 14781 |
| 1002 | My partner C | 12920 |
| 1001 | My partner B | 65044 |

Custom KPI Query with Event Attribute Value

Gets the value of the ClaimValue event attribute and displays total claim value amount for the time frame grouped by the related partner for the event.

```
DEFINE fromDate = to_timestamp('01-03-2012 00.00.00.00', 'DD-MM-YYYY HH24.MI.SS.FF');
DEFINE toDate = to_timestamp('05-03-2012 23.59.59.00', 'DD-MM-YYYY HH24.MI.SS.FF');
DEFINE eventAtt = "'ClaimValue'";
SELECT p.PARTNER_ID,
       NVL(VALUE_SUM, 0) AS VALUE_SUM
FROM
  (SELECT p.PARTNER_ID,
         SUM(VALUE_SUM) AS VALUE_SUM
   FROM DX_ODS_CUSTOM_FACTS cf
   JOIN DX_ODS_EVENT_FACTS ef
   ON ef.ROW_ID = cf.FACT_ROW_ID
   JOIN DX_ODS_PARTNER p
   ON ef.PARTNER_ID = p.PARTNER_ID
   JOIN DX_ODS_CUSTOM_FACTS_EAV cfe
   ON cf.EVENT_ATTRIBUTE_ID = cfe.ID
   WHERE cf.TIMESLICE >= &fromDate
   AND cf.TIMESLICE < &toDate
   GROUP BY p.PARTNER_ID
  ) SUM_ATT
RIGHT JOIN DX_ODS_PARTNER p
ON SUM_ATT.PARTNER_ID = p.PARTNER_ID
```

The query uses the following parameters:

- fromDate. Defines the claim value processing start date and time.
- toDate. Defines the claim value processing end date and time.
- eventAtt. Name of the event attribute from which to get the value.

The following table shows an example of the query results:

| PARTNER_ID | VALUE_SUM |
|-------------------|------------------|
| 1000 | 544 |
| 1002 | 1060 |
| 1001 | 865 |

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