

# Data Upload Messages

The data loading process loads the data to three main sections of data mart.

1. Dimension tables
2. Mapping tables
3. Observation fact table

- **Note**

In order to upload data a user must have the role of DATA\_DEID.

Except for the OBSERVATION\_FACT table, the data load will perform the insert or update operation based on two criteria: (1) whether the data exists in the respective tables and (2) whether the PDO's update date is greater than the existing data's update date.

For example the following table shows the conditions for both the update and insert operations for the VISIT\_DIMENSION table.

Loading VISIT_DIMENSION	Condition			
UPDATE	INPUT.ENCOUNTER_NUM	=	OBSFACT.ENCOUNTER_NUM	AND
	INPUT.PATIENT_NUM	=	OBSFACT.PATIENT_NUM	AND
	INPUT.UPDATE_DATE	>	OBSFACT.UPDATE_DATE	
INSERT	INPUT.ENCOUNTER_NUM	!=	OBSFACT.ENCOUNTER_NUM	OR
	INPUT.PATIENT_NUM	!=	OBSFACT.PATIENT_NUM	

The data load on the OBSERVATION\_FACT table is slightly different compared to the other tables and it can be divided into two cases.

**Case 1: Refresh the Observation Fact**

This case assumes the user is trying to load a fresh set of observation facts and expects to delete any old observation facts that have matching ENCOUNTER\_NUM and PATIENT\_NUM.

Set append\_flag="false" to support this case.

**Case 2: Incremental Observation Fact**

In this case the user has the option to just add new observation facts that may match the ENCOUNTER\_NUM and PATIENT\_NUM of an existing OBSERVATION\_FACT entry.

Set append\_flag="true" to support this case.

The next section, *i2b2 Import: Append Flag*, explains the rules for importing observations facts into the OBSERVATION\_FACT table.