1.Merge into query

**Syntax:**

**MERGE** **INTO** <target\_table> **USING** <source> **ON** <join\_expr> { **matchedClause** | **notMatchedClause** } [ ... ]

**Examples**

Perform a simple merge:

Create and load the tables:

**CREATE** **TABLE** target\_table **(**ID **INTEGER,** description **VARCHAR);**

**CREATE** **TABLE** source\_table **(**ID **INTEGER,** description **VARCHAR);**

**INSERT** **INTO** target\_table **(**ID**,** description**)** **VALUES**

**(**10**,** 'To be updated (this is the old value)'**)**

**;**

**INSERT** **INTO** source\_table **(**ID**,** description**)** **VALUES**

**(**10**,** 'To be updated (this is the new value)'**)**

**;**

Execute the MERGE statement:

Syntax:

**MERGE** **INTO** target\_table **USING** source\_table

**ON** target\_table**.**id **=** source\_table**.**id

**WHEN** **MATCHED** **THEN**

**UPDATE** **SET** target\_table**.**description **=** source\_table**.**description**;**

**o/p:**

**+**-----------------------------------+

| number of rows updated |

|-----------------------------------|

| 1 |

**+**-----------------------------------+

Display the new value(s) in the target table (the source table is unchanged):

**SELECT** **\*** **FROM** target\_table**;**

**o/p:**

**+**----+--------------------------------------------------+

| ID | DESCRIPTION |

|----+---------------------------------------------------|

| 10 | To be updated (this is the new value) |

**+**----+---------------------------------------------------+

**SELECT** **\*** **FROM** source\_table**;**

**o/p:**

**+**----+---------------------------------------------------+

| ID | DESCRIPTION |

|----+---------------------------------------------------|

| 10 | To be updated (this is the new value) |

**+**----+---------------------------------------------------+

**Syntax:**

**MERGE** **INTO** target\_table **USING** source\_table

**ON** target\_table**.**id **=** source\_table**.**id

**WHEN** **MATCHED** **THEN**

**UPDATE** **SET** target\_table**.**description **=** source\_table**.**description

**WHEN** **NOT** **MATCHED** **THEN**

**INSERT** **(**ID**,** description**)** **VALUES** **(**source\_table**.**id**,** source\_table**.**description**);**

**o/p:**

**+**-------------------------+----------------------------------------------+

| number of rows inserted | number of rows updated |

|-------------------------+-----------------------------------------------|

| 2 | 0 |

**+**-------------------------+----------------------------------------------+

Example2:

In the following example, the members table stores the names, addresses, and current fees (members.fee) paid to a local gym. The signup table stores each member’s signup date (signup.date). The MERGE statement applies a standard $40 fee to members who joined the gym more than 30 days ago, after the free trial expired:

Syntax:

**MERGE** **INTO** members m

**USING** **(**

**SELECT** id**,** **date**

**FROM** signup

**WHERE** DATEDIFF**(**day**,** CURRENT\_DATE**(),** signup**.date::DATE)** **<** **-**30**)** s **ON** m**.**id **=** s**.**id

**WHEN** **MATCHED** **THEN** **UPDATE** **SET** m**.**fee **=** 40**;**