

SQL Tutorial



SQL

Agenda

1 Merge in SQL

Employee

e_id	e_name	e_salary	e_age	e_gender	e_dept
1	Sam	95000	45	Male	Operations
2	Bob	80000	21	Male	Support
3	Anne	125000	25	Female	Analytics
4	Julia	73000	30	Female	Analytics
5	Matt	159000	33	Male	Sales
6	Jeff	112000	27	Male	Operations

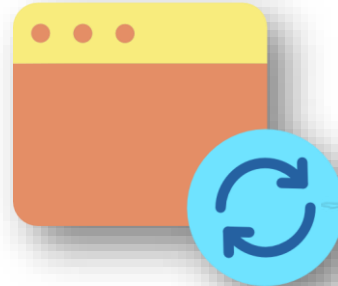
Department

d_id	d_name	d_location
1	Content	New York
2	Support	Chicago
3	Analytics	New York
4	Sales	Boston
5	Tech	Dallas
6	Finance	Chicago

MERGE is the combination of INSERT, DELETE, and UPDATE statements.



Insert



Update



Delete

Merge

Source Table

e_id	e_name	e_salary	e_age	e_gender	e_dept
1	Sam	93000	40	Male	Operations
2	Bob	80000	21	Male	Support
3	Anne	130000	25	Female	Analytics
6	Jeff	112000	27	Male	Operations
7	Adam	100000	28	Male	Content
8	Priya	85000	37	Female	Tech

Target Table

e_id	e_name	e_salary	e_age	e_gender	e_dept
1	Sam	95000	45	Male	Operations
2	Bob	80000	21	Male	Support
3	Anne	125000	25	Female	Analytics
4	Julia	73000	30	Female	Analytics
5	Matt	159000	33	Male	Sales
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Merge

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Merge

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5	Matt	159000	33	Male	Sales
6	Jeff	112000	27	Male	Operations



Implementing
the **Merge**
statement!

```
MERGE [Target] AS T
USING [Source] AS S
ON [Join Condition]
WHEN MATCHED
THEN [Update Statement]
WHEN NOT MATCHED BY TARGET
THEN [Insert Statement]
WHEN NOT MATCHED BY SOURCE
THEN [Delete Statement];
```

Merge

Source Table

e_id	e_name	e_salary	e_age	e_gender	e_dept
1	Sam	93000	40	Male	Operations
2	Bob	80000	21	Male	Support
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6	Jeff	112000	27	Male	Operations
7	Adam	100000	28	Male	Content
8	Priya	85000	37	Female	Tech

Employee_Source

Target Table

e_id	e_name	e_salary	e_age	e_gender	e_dept
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5	Matt	159000	33	Male	Sales
6	Jeff	112000	27	Male	Operations

Employee_Target



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Thank You



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