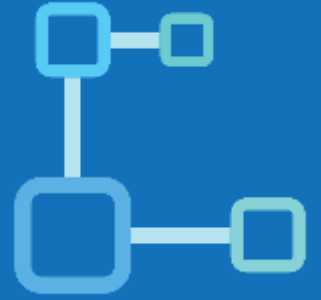




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DATABASE



Data Manipulation Language (DML)

DML commands are used to modify the database. It is responsible for all form of changes in the database.



The command of DML is not auto-committed that means it can't permanently save all the changes in the database. **They can be rollback.**

Insert

Update

Delete

DML Commands

Insert

This command is used to insert data into the row of a table.

Syntax

```
INSERT INTO TABLE_NAME (col1, col2, col3,.... col N)  
VALUES (value1, value2, value3, .... valueN);
```

DML Commands

- **Example 1 :**

```
INSERT INTO EMPLOYEE(Name,Email,DOB,Address)  
VALUES('Gaytri Sen', 'gsen@netlink.com', '01-01-1999', 'Bhopal');
```

Name	Email	DOB	Address
Gaytri Sen	gsen@netlink.com	01-01-1999	Bhopal

DML Commands

Example 2 :

```
INSERT INTO EMPLOYEE(Name,Email,DOB,Address)
VALUES('Priyal Priya', 'ppriya@netlink.com', 01-01-1999, 'Bhopal'),
VALUES('Geeta Negi', 'gnegi@netlink.com', 07-06-2000, 'Bhopal'),
VALUES('Akshay Sethiya', 'asethiya@netlink.com', 01-01-1998, 'Bhopal');
```

Name	Email	DOB	Address
Gaytri Sen	gsen@netlink.com	01-01-1999	Bhopal
Priyal Priya	ppriya@netlink.com	01-01-1999	Bhopal
Geeta Negi	gnegi@netlink.com	07-06-2000	Bhopal
Akshay Sethiya	asethiya@netlink.com	01-01-1998	Bhopal

DML Commands

Update

This command is used to update or modify the value of a column in the table.

Syntax

```
UPDATE table_name  
SET [column_name1= value1,...column_nameN = valueN]  
[WHERE CONDITION] ;
```

DML Commands

- **Example :**

```
UPDATE EMPLOYEE  
SET Name = `Ranjana Parmar`  
WHERE Name = 'Priyal Priya' ;
```

Name	Email	DOB	Address
Gaytri Sen	gsen@netlink.com	01-01-1999	Bhopal
Ranjana Parmar	ppriya@netlink.com	01-01-1999	Bhopal
Geeta Negi	gnegi@netlink.com	07-06-2000	Bhopal
Akshay Sethiya	asethiya@netlink.com	01-01-1998	Bhopal

DML Commands

Delete

This command is used to update or modify the value of a column in the table.

Syntax

```
DELETE FROM table_name  
[WHERE CONDITION] ;
```


DML Commands

- **Example :**

**DELETE FROM EMPLOYEE
WHERE Email = `asethiya@netlink.com` ;**

Name	Email	DOB	Address
Gaytri Sen	gsen@netlink.com	01-01-1999	Bhopal
Ranjana Parmar	ppriya@netlink.com	01-01-1999	Bhopal
Geeta Negi	gnegi@netlink.com	07-06-2000	Bhopal

Difference between delete vs Truncate

Delete Vs Truncate

Difference between delete and truncate can be summarized as below

	Delete	Truncate
Command Type	DML	DDL
Where Condition	support	does not support
Reset Identity Column	no	yes
Acquired lock	row lock	table and page lock
Transaction log	for each deleted row	one log indicating deallocation of page
Performance(Speed of execution)	slow	much faster than Delete



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Thank you