



Master In SQL By Fireblaze Al School

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Manipulating Data

- Adding new rows in a table.
- INSERT statement.
- UPDATE statement
- DELETE statement
- TRUNCATE statement
- Database transaction

Add New Row In Table

Add new rows to a table by using the INSERT statement

- Syntax: INSERT INTO table [(column [, column...])] VALUES (value [, value...]);
- With this syntax, only one row is inserted at a time.
- You can add new rows to a table by issuing the INSERT statement.
 In the syntax: table column value is the name of the table is the name of the column in the table to populate is the corresponding value for the column.

Inserting New Rows

- Insert a new row containing values for each column.
- List values in the default order of the columns in the table.
- Optionally, list the columns in the INSERT clause.

Syntax:-

```
Insert Into Table_name (Column_name1,Column_2)
Values ( Value1, Value2)';
```

UPDATE Statement Syntax

Modify existing values in a table with the UPDATE statement:

```
Syntax:- UPDATE table

SET column = value [, column = value, ...]

[WHERE condition];
```

Update more than one row at a time (if required).

Delete Statement

You can remove existing rows from a table by using the DELETE statement:

Syntax:DELETE
[FROM] table
[WHERE condition];

TRUNCATE Statement

Removes all rows from a table, leaving the table empty and the table structure intact.

Is a data definition language (DDL) statement rather than a DML statement;
 cannot easily be undone.

Syntax:

Truncate Table Table_Name;

Database Transaction

With COMMIT and ROLLBACK statements, you can:

- Ensure data consistency
- Preview data changes before making changes permanent
- Group logically-related operations

Commit, Savepoint, Rollback

| Statement | Description |
|----------------|----------------------------------------------------------------------------------|
| COMMIT | COMMIT ends the current transaction by making all pending data changes permanent |
| SAVEPOINT name | SAVEPOINT name marks a savepoint within the current transaction. |
| ROLLBACK | ROLLBACK ends the current transaction by discarding all pending data changes. |