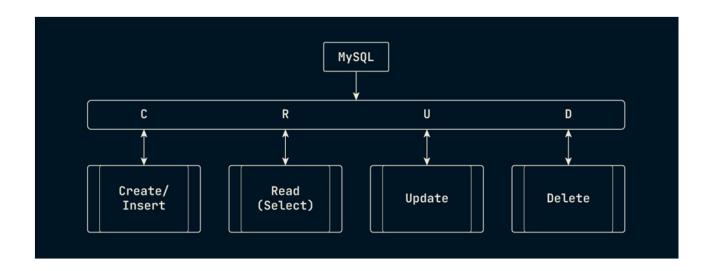


MySQL: CRUD Operations SQL



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MySQL: CRUD Operations SQL

- **CRUD** describes the four basic operations that a user can perform in a database. Users can
 - 1. Create or insert new records into a table,
 - 2. Read or select existing records from a table,
 - 3. Update or modify existing records stored inside a table,
 - 4. **Delete** or **remove** existing records from a table.



MySQL: CRUD Operations SQL - Insert

Insert Operation Syntax :

- INSERT INTO table_name (column1, column2, column3, ...)
 VALUES (value1, value2, value3, ...);
- INSERT INTO table_name
 VALUES (value1, value2, value3, ...);

Example:

- INSERT INTO Student_tb (StudentID, StudentName, Branch, City)
 VALUES (1001, 'Shyam Sharma', 'EC', 'Noida');
- INSERT INTO Student_tb
 VALUES (1002, 'Ram Sharma', 'EC', 'Noida');
- INSERT INTO Student_tb (StudentName, City)
 VALUES ('Manu Sharma', 'Noida');

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MySQL: CRUD Operations SQL - Select

- Select Operation Syntax :
 - SELECT column1, column2, ...
 FROM table name;
 - SELECT *FROM table_name;
- Example:
 - SELECT StudentName, Branch, City FROM Student_tb;
 - SELECT * FROM Student_tb;

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MySQL: CRUD Operations SQL - Select

- **Select Where Operation Syntax :**
 - SELECT column1, column2, ...
 FROM table_name
 WHERE condition;
 - SELECT *
 FROM table_name
 WHERE condition;
- **Example:**
 - SELECT *
 FROM Student_tb
 WHERE City = 'Delhi';
 - SELECT *
 FROM Student_tb
 WHERE StudentID = 1001;

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MySQL: CRUD Operations SQL - Update

Update Operation Syntax :

UPDATE table_name
 SET column1 = value1, column2 = value2, ...
 WHERE condition;

Example:

UPDATE Student_tb
 SET StudentName = 'Ramesh Kumar', City = 'Delhi'
 WHERE StudentID = 1001;

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MySQL: CRUD Operations SQL - Delete

- Delete Operation Syntax :
 - DELETE FROM table_name
 WHERE condition;
- **Example:**
 - DELETE FROM Student_tb
 WHERE StudentName = 'Ramesh Kumar';

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MySQL: Performing Basic DB Operations (DML)

- ❖ DML(Data Manipulation Language): DML commands deal with operations on data present in the database and DML commands make up a majority of the SQL statements.
 - 1. INSERT is used to insert data into a table.
 - 2. **UPDATE** is used to update existing data within a table.
 - 3. **DELETE** is used to delete records from a database table.

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MySQL: Join

- ❖ Join is used to combines the row of two or more tables based on related columns between them.
- The main purpose of Join is to retrieve the data from multiple tables in other words Join is used to perform multi-table query.
- Types of Join
 - Inner Join
 - Outer join

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MySQL: Join

- Inner join: Inner Join is a join operation in DBMS that combines two or more table based on related columns and return only rows that have matching values among tables. Inner join of two types.
 - Equi Join
 - Natural Join
- **❖ Equi Join :** Equi Join is a type of Inner join in which we use equivalence('=') condition in join condition

Example:

Table A		
Column A	Column B	
а	a	
а	b	

Table B		
Column A	Column B	
a	a	
а	С	



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MySQL: Join

Natural Join: Natural join is a type of inner join in which we not need of any comparison operators. In natural join columns should have the same name and domain. There should be at least one common attribute between two tables.

Example:

Table A		
Number	Square	
2	4	
3	9	

Table B	
Number	Cube
2	8
3	27

Result:			
Number	Square	Cube	
2	4	8	
3	9	27	

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