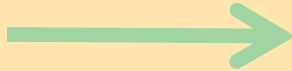


# Basic SQL Operations Workflow



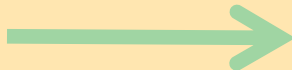
<https://www.linkedin.com/in/israrmohammed/>

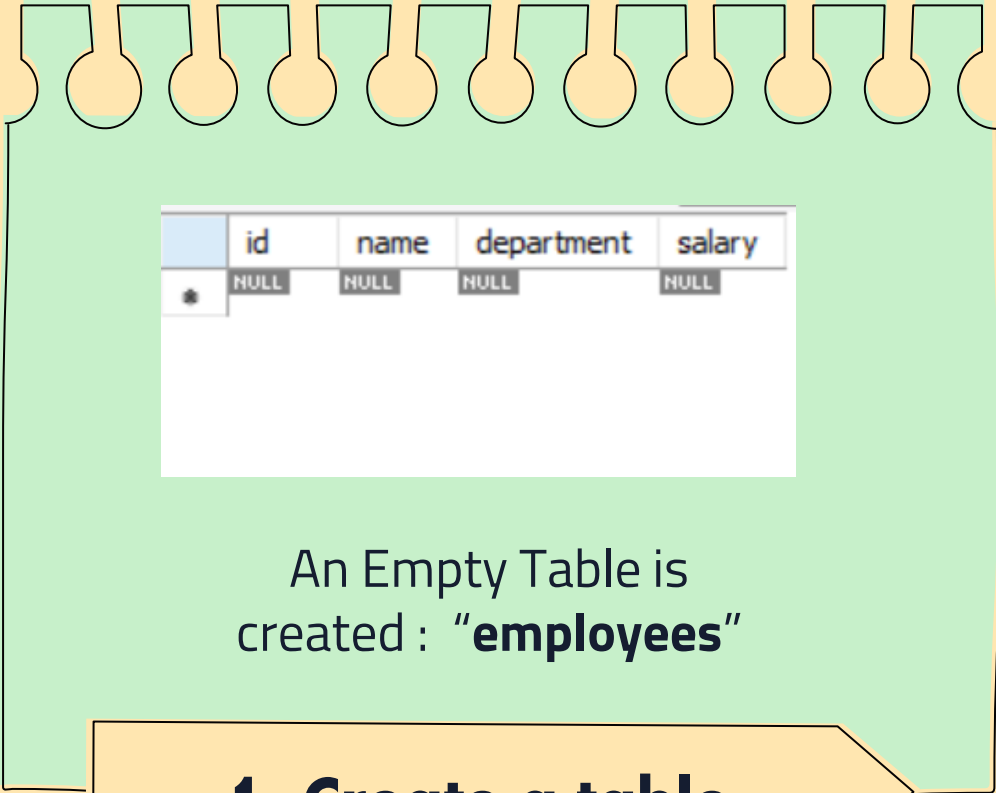


Command : **CREATE**

```
• CREATE TABLE employees  
(  
    id INT PRIMARY KEY,  
    name VARCHAR(50),  
    department VARCHAR(50),  
    salary DECIMAL(10, 2)  
);
```

**1. Create a table**

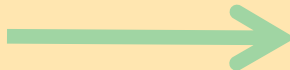




	id	name	department	salary
*	NULL	NULL	NULL	NULL

An Empty Table is  
created : **"employees"**

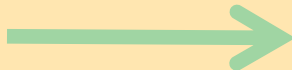
**1. Create a table**

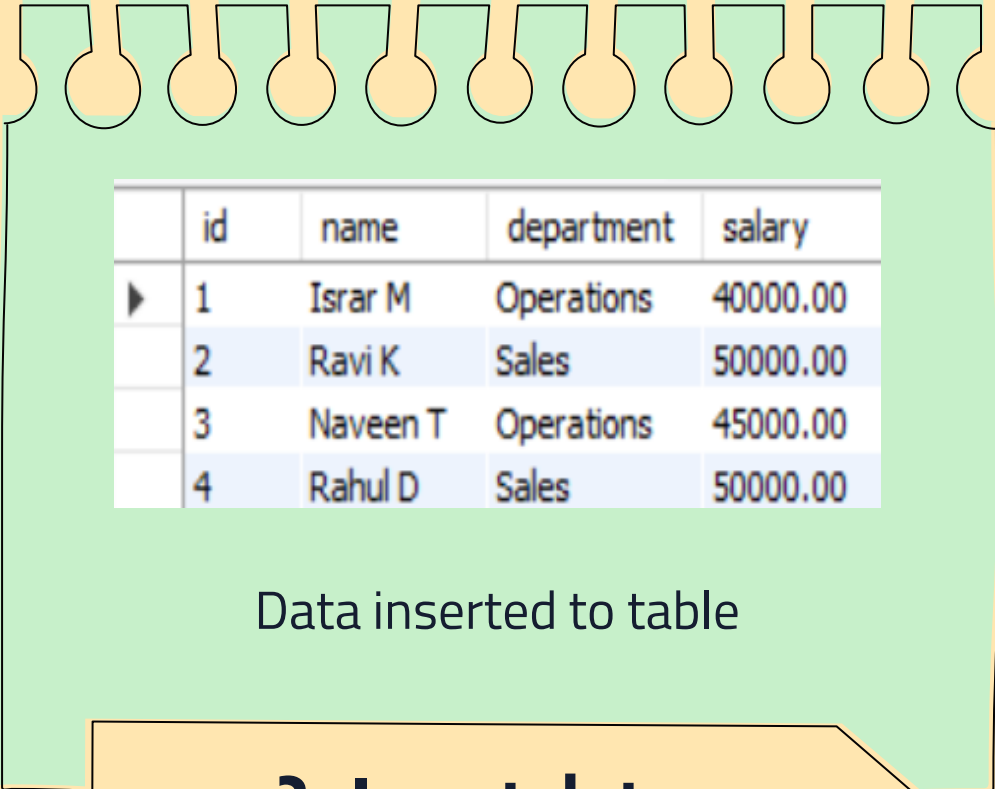


Command : **INSERT INTO**

- `INSERT INTO employees (id, name, department, salary)  
VALUES (1, 'Israr M', 'Operations', 40000.00),  
(2, 'Ravi K', 'Sales', 50000.00),  
(3, 'Naveen T', 'Operations', 45000.00),  
(4, 'Rahul D', 'Sales', 50000.00);`

## 2. Insert data

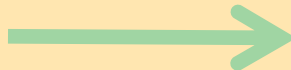




	id	name	department	salary
▶	1	Israr M	Operations	40000.00
	2	Ravi K	Sales	50000.00
	3	Naveen T	Operations	45000.00
	4	Rahul D	Sales	50000.00

Data inserted to table

## 2. Insert data



Command : **SELECT**

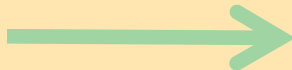
Query 1:

- `SELECT * FROM employees;`

Query 2:

- `SELECT name, salary FROM employees;`

### 3. Select data



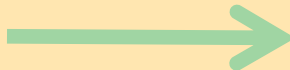
Output 1:

	id	name	department	salary
►	1	Israr M	Operations	40000.00
	2	Ravi K	Sales	50000.00
	3	Naveen T	Operations	45000.00
	4	Rahul D	Sales	50000.00

Output 2:

	name	salary
►	Israr M	40000.00
	Ravi K	50000.00
	Naveen T	45000.00
	Rahul D	50000.00

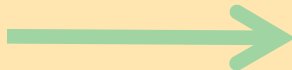
### 3. Select data



Command : **UPDATE**

- `UPDATE employees  
SET salary = 55000.00  
WHERE id = 1;`

## 4. Update data





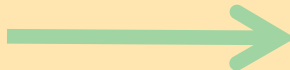
Before:

	id	name	department	salary
▶	1	Israr M	Operations	40000.00
	2	Ravi K	Sales	50000.00
	3	Naveen T	Operations	45000.00
	4	Rahul D	Sales	50000.00

After:

	id	name	department	salary
▶	1	Israr M	Operations	55000.00
	2	Ravi K	Sales	50000.00
	3	Naveen T	Operations	45000.00
	4	Rahul D	Sales	50000.00

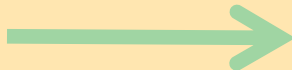
**4. Update data**



Command : **DELETE**

- `DELETE FROM employees  
WHERE id = 2;`

## 5. Delete data



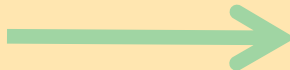
Before:

	id	name	department	salary
▶	1	Israr M	Operations	40000.00
	2	Ravi K	Sales	50000.00
	3	Naveen T	Operations	45000.00
	4	Rahul D	Sales	50000.00

After:

	id	name	department	salary
▶	1	Israr M	Operations	55000.00
	3	Naveen T	Operations	45000.00
	4	Rahul D	Sales	50000.00

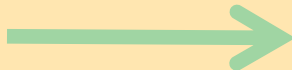
## 5. Delete data



Command : **SELECT & WHERE**

- `SELECT name, salary FROM employees  
WHERE salary > 50000;`

## 6. Where Clause



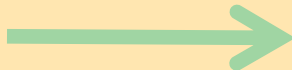
Original  
Table:

	id	name	department	salary
▶	1	Israr M	Operations	55000.00
	3	Naveen T	Operations	45000.00
	4	Rahul D	Sales	50000.00

Output:

	name	salary
▶	Israr M	55000.00

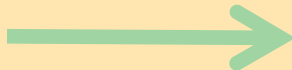
## 6. Where Clause



Command : **Group by**

- `SELECT department, AVG(salary) AS average_salary  
FROM employees  
GROUP BY department;`

## 7. Group By



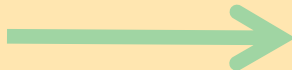
Original  
Table:

	id	name	department	salary
▶	1	Israr M	Operations	55000.00
	3	Naveen T	Operations	45000.00
	4	Rahul D	Sales	50000.00

Output:

	department	average_salary
▶	Operations	50000.000000
	Sales	50000.000000

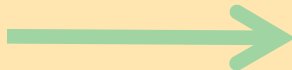
## 7. Group By



Command : **Group by**

- `SELECT department, AVG(salary) AS average_salary  
FROM employees  
GROUP BY department;`

## 8. Order By





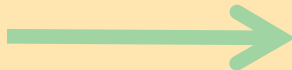
Original  
Table:

	id	name	department	salary
▶	1	Israr M	Operations	55000.00
	3	Naveen T	Operations	45000.00
	4	Rahul D	Sales	50000.00

Output:

	name	salary
▶	Israr M	55000.00
	Rahul D	50000.00
	Naveen T	45000.00

## 8. Order By



Keep Learning.  
&  
Help Others.



<https://www.linkedin.com/in/israrmohammed/>

Israr Mohammed