

Create db sitrc;

Use sitrc;

-- Creating Employees Table

```
CREATE TABLE employees (  
    employee_id INT PRIMARY KEY,  
    first_name VARCHAR(50),  
    last_name VARCHAR(50),  
    department VARCHAR(50),  
    salary DECIMAL(10,2),  
    phone_number VARCHAR(15));
```

-- Inserting Data into Employees Table

```
INSERT INTO employees (employee_id, first_name, last_name, department, salary, phone_number)  
VALUES  
    (1, 'John', 'Doe', 'Sales', 55000, '1234567890'),  
    (2, 'Jane', 'Smith', 'HR', 62000, '9876543210'),  
    (3, 'Michael', 'Brown', 'IT', 70000, '7418529630'),  
    (4, 'Sarah', 'Johnson', 'Sales', 58000, '8529637410'),  
    (5, 'David', 'Wilson', 'Finance', 75000, '3692581470'),  
    (6, 'Emma', 'Clark', 'HR', 52000, '1478523690'),  
    (7, 'Robert', 'Miller', 'IT', 68000, '2587413690'),  
    (8, 'Sophia', 'Garcia', 'Marketing', 49000, '3691472580'),  
    (9, 'James', 'Martinez', 'Finance', 72000, '1237894560'),  
    (10, 'Olivia', 'Lopez', 'Sales', 59000, '9871236540'),  
    (11, 'Liam', 'Taylor', 'IT', 71000, '9632587410'),  
    (12, 'Noah', 'Anderson', 'HR', 54000, '7896541230'),  
    (13, 'Ava', 'Thomas', 'Finance', 76000, '4561237890'),  
    (14, 'William', 'Harris', 'Marketing', 50000, '7413692580'),  
    (15, 'Isabella', 'Moore', 'Sales', 57000, '8527419630');
```

```
SELECT * FROM employees;
```

1 Employees Table (After Insertions)

employee_id	first_name	last_name	department	salary	phone_number
1	John	Doe	Sales	55000	1234567890
2	Jane	Smith	HR	62000	9876543210
3	Michael	Brown	IT	70000	7418529630
4	Sarah	Johnson	Sales	58000	8529637410
5	David	Wilson	Finance	75000	3692581470
6	Emma	Clark	HR	52000	1478523690
7	Robert	Miller	IT	68000	2587413690
8	Sophia	Garcia	Marketing	49000	3691472580
9	James	Martinez	Finance	72000	1237894560
10	Olivia	Lopez	Sales	59000	9871236540
11	Liam	Taylor	IT	71000	9632587410
12	Noah	Anderson	HR	54000	7896541230
13	Ava	Thomas	Finance	76000	4561237890
14	William	Harris	Marketing	50000	7413692580
15	Isabella	Moore	Sales	57000	8527419630

-- Deleting Employee Records

```
DELETE FROM employees WHERE employee_id = 5;
```

```
DELETE FROM employees WHERE salary < 50000;
```

```
DELETE FROM employees WHERE department = 'Marketing';
```

```
SELECT * FROM employees;
```

2 Employees Table (After Deletion)

employee_id	first_name	last_name	department	salary	phone_number
1	John	Doe	Sales	55000	1234567890
2	Jane	Smith	HR	62000	9876543210
3	Michael	Brown	IT	70000	7418529630
4	Sarah	Johnson	Sales	58000	8529637410
6	Emma	Clark	HR	52000	1478523690
7	Robert	Miller	IT	68000	2587413690
9	James	Martinez	Finance	72000	1237894560
10	Olivia	Lopez	Sales	59000	9871236540
11	Liam	Taylor	IT	71000	9632587410
12	Noah	Anderson	HR	54000	7896541230
13	Ava	Thomas	Finance	76000	4561237890
15	Isabella	Moore	Sales	57000	8527419630

-- Updating Employee Records

```
UPDATE employees SET salary = 60000 WHERE employee_id = 1;
```

```
UPDATE employees SET salary = salary * 1.10 WHERE department = 'Sales';
```

```
UPDATE employees SET department = 'HR' WHERE employee_id = 2;
```

```
UPDATE employees SET phone_number = '0000000000' WHERE department = 'Finance';
```

```
UPDATE employees SET salary = salary + 5000 WHERE salary BETWEEN 50000 AND 60000;
```

```
SELECT * FROM employees;
```

3 Employees Table (After Updates)

employee_id	first_name	last_name	department	salary	phone_number
1	John	Doe	Sales	66000	1234567890
2	Jane	Smith	HR	62000	9876543210
3	Michael	Brown	IT	70000	7418529630
4	Sarah	Johnson	Sales	69300	8529637410
6	Emma	Clark	HR	57000	1478523690
7	Robert	Miller	IT	68000	2587413690
9	James	Martinez	Finance	72000	0000000000
10	Olivia	Lopez	Sales	70400	9871236540
11	Liam	Taylor	IT	71000	9632587410
12	Noah	Anderson	HR	59000	7896541230
13	Ava	Thomas	Finance	76000	0000000000
15	Isabella	Moore	Sales	68200	8527419630

--Modifying a Table Structure

```
ALTER TABLE employees ADD email VARCHAR(100);
```

employee_id	first_name	last_name	department	salary	phone_number	email
1	John	Doe	Sales	60000	1234567890	(NULL)
2	Jane	Smith	HR	62000	9876543210	(NULL)
3	Michael	Brown	IT	70000	7418529630	(NULL)
4	Sarah	Johnson	Sales	63800	8529637410	(NULL)
6	Emma	Clark	HR	52000	1478523690	(NULL)
7	Robert	Miller	IT	68000	2587413690	(NULL)
9	James	Martinez	Finance	72000	0000000000	(NULL)
10	Olivia	Lopez	Sales	64900	9871236540	(NULL)
11	Liam	Taylor	IT	71000	9632587410	(NULL)
12	Noah	Anderson	HR	54000	7896541230	(NULL)
13	Ava	Thomas	Finance	76000	0000000000	(NULL)
15	Isabella	Moore	Sales	62700	8527419630	(NULL)

--Viewing Records Based on a Condition

```
SELECT employee_id, first_name, last_name, salary FROM employees WHERE salary > 60000;
```

employee_id	first_name	last_name	salary
1	John	Doe	66000
2	Jane	Smith	62000
3	Michael	Brown	70000
4	Sarah	Johnson	69300
7	Robert	Miller	68000
9	James	Martinez	72000
10	Olivia	Lopez	70400
11	Liam	Taylor	71000
13	Ava	Thomas	76000
15	Isabella	Moore	68200

```
SELECT * FROM employees WHERE department = 'Sales' OR department = 'IT';
```

Employees in Sales or IT department

employee_id	first_name	last_name	department	salary	phone_number
1	John	Doe	Sales	66000	1234567890
3	Michael	Brown	IT	70000	7418529630
4	Sarah	Johnson	Sales	69300	8529637410
7	Robert	Miller	IT	68000	2587413690
10	Olivia	Lopez	Sales	70400	9871236540
11	Liam	Taylor	IT	71000	9632587410
15	Isabella	Moore	Sales	68200	8527419630

```
SELECT employee_id, first_name, last_name, department FROM employees WHERE phone_number = '0000000000';
```

employee_id	first_name	last_name	department
9	James	Martinez	Finance
13	Ava	Thomas	Finance

```
SELECT COUNT(*) FROM employees WHERE department = 'HR';
```

count
3