

```
mysql> CREATE TABLE Hospital(
-> Patient_ID INT(5) NOT NULL PRIMARY KEY,
-> Name VARCHAR(50),
-> Mobile_no BIGINT(10) UNIQUE,
-> Gender CHAR(1)
-> );
```

Query OK, 0 rows affected (0.03 sec)

```
mysql> INSERT INTO Hospital (Patient_ID, Name, Mobile_no, Gender)
-> VALUES
-> (1, 'Amit Sharma', 9876543210, 'M'),
-> (2, 'Priya Singh', 8765432109, 'F'),
-> (3, 'Ravi Kumar', 7654321098, 'M'),
-> (4, 'Sneha Patel', 6543210987, 'F'),
-> (5, 'Rahul Mehta', 5432109876, 'M'),
-> (6, 'Anjali Desai', 4321098765, 'F');
```

Query OK, 6 rows affected (0.02 sec)

Records: 6 Duplicates: 0 Warnings: 0

```
mysql> select * from hospital;
```

Patient_ID	Name	Mobile_no	Gender
1	Amit Sharma	9876543210	M
2	Priya Singh	8765432109	F
3	Ravi Kumar	7654321098	M
4	Sneha Patel	6543210987	F
5	Rahul Mehta	5432109876	M
6	Anjali Desai	4321098765	F

6 rows in set (0.00 sec)

```
mysql> desc hospital;
```

Field	Type	Null	Key	Default	Extra
Patient_ID	int(5)	NO	PRI	NULL	
Name	varchar(50)	YES		NULL	
Mobile_no	bigint(10)	YES	UNI	NULL	
Gender	char(1)	YES		NULL	

```
mysql> CREATE TABLE Employee (
->     Employee_ID INT PRIMARY KEY,
->     Name VARCHAR(100),
->     Salary DECIMAL(10, 2),
->     Department VARCHAR(50),
->     DOB DATE,
->     Gender CHAR(1),
->     Hire_Date DATE
-> );
Query OK, 0 rows affected (0.02 sec)
```

```
mysql>
mysql> INSERT INTO Employee (Employee_ID, Name, Salary, Department, DOB, Gender, Hire_Date)
-> VALUES
-> (1, 'Mohan Rao', 12000.00, 'Finance', '1965-03-15', 'M', '2000-07-23'),
-> (2, 'Sita Verma', 15000.00, 'HR', '1970-06-01', 'F', '2002-09-14'),
-> (3, 'Amitabh Bachchan', 20000.00, 'IT', '1962-11-11', 'M', '1999-01-05'),
-> (4, 'Maya Singh', 18000.00, 'Finance', '1968-04-22', 'F', '2001-03-30'),
-> (5, 'Rajesh Khanna', 25000.00, 'Marketing', '1980-09-09', 'M', '2005-12-01'),
-> (6, 'Anita Kapoor', 22000.00, 'IT', '1975-12-31', 'F', '2003-04-18'),
-> (7, 'Manoj Joshi', 14000.00, 'Finance', '1960-07-07', 'M', '2004-05-20'),
-> (8, 'Kavita Sharma', 13000.00, 'HR', '1985-05-25', 'F', '2007-07-15'),
-> (9, 'Jaya Balan', 11000.00, 'IT', '1972-10-30', 'F', '2006-02-28'),
-> (10, 'Manish Patel', 17000.00, 'Marketing', '1963-02-17', 'M', '2000-11-11');
Query OK, 10 rows affected (0.01 sec)
Records: 10  Duplicates: 0  Warnings: 0
```

```
mysql> SELECT MAX(Salary) AS SecondHighestSalary
-> FROM Employee
-> WHERE Salary < (SELECT MAX(Salary) FROM Employee);
+-----+
| SecondHighestSalary |
+-----+
|          22000.00 |
+-----+
1 row in set (0.01 sec)
```

```
mysql> SELECT Department, MAX(Salary) AS MaxSalary
-> FROM Employee
-> GROUP BY Department;
```

Department	MaxSalary
Finance	18000.00
HR	15000.00
IT	22000.00
Marketing	25000.00

4 rows in set (0.00 sec)

```
mysql> SELECT CURDATE() AS CurrentDate;
```

CurrentDate
2024-08-25

1 row in set (0.00 sec)

```
mysql> SELECT STR_TO_DATE('2024-08-25', '%Y-%m-%d') IS NOT NULL AS ValidDateFormat;
```

ValidDateFormat
1

1 row in set (0.00 sec)

```
mysql> SELECT DISTINCT Name
-> FROM Employee
-> WHERE DOB BETWEEN '1960-01-01' AND '1975-12-31';
```

Name
Mohan Rao
Sita Verma
Amitabh Bachchan
Maya Singh
Anita Kapoor
Manoj Joshi
Jaya Balan
Manish Patel

8 rows in set (0.00 sec)

```
mysql> SELECT Gender, COUNT(*) AS NumberOfEmployees
-> FROM Employee
-> WHERE DOB BETWEEN '1960-01-01' AND '1975-12-31'
-> GROUP BY Gender;
```

Gender	NumberOfEmployees
F	4
M	4

2 rows in set (0.00 sec)

```
mysql> SELECT *
-> FROM Employee
-> WHERE Salary >= 10000;
```

Employee_ID	Name	Salary	Department	DOB	Gender	Hire_Date
1	Mohan Rao	12000.00	Finance	1965-03-15	M	2000-07-23
2	Sita Verma	15000.00	HR	1970-06-01	F	2002-09-14
3	Amitabh Bachchan	20000.00	IT	1962-11-11	M	1999-01-05
4	Maya Singh	18000.00	Finance	1968-04-22	F	2001-03-30
5	Rajesh Khanna	25000.00	Marketing	1980-09-09	M	2005-12-01
6	Anita Kapoor	22000.00	IT	1975-12-31	F	2003-04-18
7	Manoj Joshi	14000.00	Finance	1960-07-07	M	2004-05-20
8	Kavita Sharma	13000.00	HR	1985-05-25	F	2007-07-15
9	Jaya Balan	11000.00	IT	1972-10-30	F	2006-02-28
10	Manish Patel	17000.00	Marketing	1963-02-17	M	2000-11-11

10 rows in set (0.00 sec)

```
mysql> SELECT Name
-> FROM Employee
-> WHERE Name LIKE 'M%';
```

Name
Mohan Rao
Maya Singh
Manoj Joshi
Manish Patel

4 rows in set (0.00 sec)

```
mysql> SELECT *
-> FROM Employee
-> WHERE LOWER(Name) LIKE '%joe%';
```

Empty set (0.00 sec)

```
mysql> SELECT YEAR(DOB) AS BirthYear  
-> FROM Employee;
```

BirthYear
1965
1970
1962
1968
1980
1975
1960
1985
1972
1963

```
10 rows in set (0.00 sec)
```