

```
mysql> drop database sarthak;
Query OK, 3 rows affected (0.02 sec)

mysql> create database sarthak;
Query OK, 1 row affected (0.00 sec)

mysql> use sarthak;
Database changed
mysql> CREATE TABLE SALGRADE (
    -> SGRADE VARCHAR(3) PRIMARY KEY,
    -> SALARY INT,
    -> HRA INT
    -> );
Query OK, 0 rows affected (0.02 sec)

mysql> CREATE TABLE EMPLOYEE (
    -> ECODE INT PRIMARY KEY,
    -> NAME VARCHAR(50),
    -> DESIG VARCHAR(50),
    -> SGRADE VARCHAR(3),
    -> DOJ DATE,
    -> DOB DATE,
    -> FOREIGN KEY (SGRADE) REFERENCES SALGRADE(SGRADE)
    -> );
Query OK, 0 rows affected (0.02 sec)

mysql> INSERT INTO SALGRADE VALUES ('S01', 56000, 18000);
Query OK, 1 row affected (0.01 sec)

mysql> INSERT INTO SALGRADE VALUES ('S02', 32000, 12000);
Query OK, 1 row affected (0.01 sec)

mysql> INSERT INTO SALGRADE VALUES ('S03', 24000, 8000);
Query OK, 1 row affected (0.00 sec)

mysql> INSERT INTO EMPLOYEE VALUES (101, 'Vikrant', 'Executive', 'S03', '2003-03-23', '1980-01-13');
Query OK, 1 row affected (0.01 sec)

mysql> INSERT INTO EMPLOYEE VALUES (103, 'John Cena', 'Receptionist', 'S03', '2009-06-24', '1983-02-24');
Query OK, 1 row affected (0.00 sec)

mysql> INSERT INTO EMPLOYEE VALUES (105, 'Azhar Ansari', 'GM', 'S02', '2009-08-11', '1984-03-03');
Query OK, 1 row affected (0.00 sec)

mysql> INSERT INTO EMPLOYEE VALUES (108, 'Priyam Sen', 'CEO', 'S01', '2004-12-29', '1982-01-19');
```

```
mysql> INSERT INTO EMPLOYEE VALUES (108, 'Priyam Sen', 'CEO', 'S01', '2004-12-29', '1982-01-19');
Query OK, 1 row affected (0.00 sec)

mysql> SELECT NAME, DESIG
-> FROM EMPLOYEE
-> WHERE SGRADE IN ('S02', 'S03');
+-----+-----+
| NAME    | DESIG   |
+-----+-----+
| Azhar Ansari | GM      |
| Vikrant     | Executive |
| John Cena    | Receptionist |
+-----+-----+
3 rows in set (0.00 sec)

mysql> SELECT NAME, DESIG, SGRADE
-> FROM EMPLOYEE
-> WHERE YEAR(DOJ) = 2009;
+-----+-----+-----+
| NAME    | DESIG   | SGRADE |
+-----+-----+-----+
| John Cena | Receptionist | S03    |
| Azhar Ansari | GM      | S02    |
+-----+-----+-----+
2 rows in set (0.00 sec)

mysql> SELECT SGRADE, SALARY * 12 AS ANNUAL_SALARY
-> FROM SALGRADE;
+-----+-----+
| SGRADE | ANNUAL_SALARY |
+-----+-----+
| S01    |      672000 |
| S02    |      384000 |
| S03    |      288000 |
+-----+-----+
3 rows in set (0.00 sec)
```

```

mysql> SELECT SGRADE, COUNT(ECODE) AS No_OF_Employees
-> FROM EMPLOYEE
->
-> GROUP BY SGRADE;
+-----+-----+
| SGRADE | No_OF_Employees |
+-----+-----+
| S01    |          1 |
| S02    |          1 |
| S03    |          2 |
+-----+-----+
3 rows in set (0.00 sec)

mysql> SELECT EMPLOYEE.NAME, EMPLOYEE.DESIG, SALGRADE.SALARY, SALGRADE.HRA
-> FROM EMPLOYEE
-> INNER JOIN SALGRADE ON EMPLOYEE.SGRADE = SALGRADE.SGRADE
-> WHERE SALGRADE.SALARY < 50000;
+-----+-----+-----+-----+
| NAME   | DESIG    | SALARY | HRA   |
+-----+-----+-----+-----+
| Azhar Ansari | GM      | 32000 | 12000 |
| Vikrant     | Executive | 24000 | 8000  |
| John Cena    | Receptionist | 24000 | 8000  |
+-----+-----+-----+-----+
3 rows in set (0.00 sec)

mysql> SELECT MIN(DOJ), MAX(DOB)
-> FROM EMPLOYEE;
+-----+-----+
| MIN(DOJ) | MAX(DOB) |
+-----+-----+
| 2003-03-23 | 1984-03-03 |
+-----+-----+
1 row in set (0.00 sec)

```

```
mysql> SELECT SGRADE, SALARY + HRA AS Total_Pay
-> FROM SALGRADE
-> WHERE SGRADE = 'S02';
```

SGRADE	Total_Pay
S02	44000

1 row in set (0.00 sec)

```
mysql> SELECT COUNT(DISTINCT SGRADE)
-> FROM EMPLOYEE;
```

COUNT(DISTINCT SGRADE)
3

1 row in set (0.00 sec)

```
mysql> SELECT SUM(SALARY), AVG(SALARY)
-> FROM SALGRADE;
```

SUM(SALARY)	AVG(SALARY)
112000	37333.3333

1 row in set (0.00 sec)

```
mysql> |
```