

```
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> |
```