

## ASSIGNMENT 6:

NAME = AMAN MUNIR MUJAWAR  
DIV = IT  
ROLLNO = SIB-16

/\*

Perform following SQL queries on the database created in assignment 3.

- 1.Implementation of relational operators in SQL
- 2.Boolean operators and pattern matching
- 3.Arithmetic operations and built in functions
- 4.Group By, Order By ,Having, Limit
- 5.Processing Date and Time functions
- 6.Join- Natural Join, Join, Left join, Right Join, Joining multiple tables

\*/

```
mysql> DROP database employee_management;
```

Query OK, 3 rows affected (0.03 sec)

```
mysql> CREATE DATABASE EMPLOYEE_MANAGEMENT;
```

Query OK, 1 row affected (0.01 sec)

```
mysql>
```

```
mysql> USE EMPLOYEE_MANAGEMENT;
```

Database changed

```
mysql>
```

```
mysql> CREATE TABLE MANAGER (
```

```
->     M_ID VARCHAR(10),  
->     MANAGER_NAME VARCHAR(50),  
->     MANAGER_EMAIL VARCHAR(50),  
->     MANAGER_PHONE VARCHAR(50),  
->     PRIMARY KEY(M_ID,MANAGER_EMAIL)  
-> );
```

Query OK, 0 rows affected (0.04 sec)

```
mysql> DESC MANAGER;
```

```

+-----+-----+-----+-----+-----+
| Field          | Type          | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+
| M_ID           | varchar(10)   | NO   | PRI | NULL    |       |
| MANAGER_NAME   | varchar(50)   | YES  |     | NULL    |       |
| MANAGER_EMAIL  | varchar(50)   | NO   | PRI | NULL    |       |
| MANAGER_PHONE  | varchar(50)   | YES  |     | NULL    |       |
+-----+-----+-----+-----+-----+
4 rows in set (0.00 sec)

```

```
mysql>
```

```
mysql> INSERT INTO MANAGER(M_ID,MANAGER_NAME,MANAGER_EMAIL,MANAGER_PHONE)
-> VALUES
```

```

-> ('M-12','JHON WICK','jhon@email.com',1112221234),
-> ('M-10','MOHAN LAL','mohan@email.com',4445556661);

```

```

Query OK, 2 rows affected (0.01 sec)
Records: 2  Duplicates: 0  Warnings: 0

```

```
mysql>
mysql>
```

```

mysql> CREATE TABLE DEPARTMENT (
->
->     DEPARTMENT_ID BIGINT NOT NULL,
->     DEPARTMENT_NAME VARCHAR(30) NOT NULL,
->     PRIMARY KEY(DEPARTMENT_ID)
->
-> );

```

```
Query OK, 0 rows affected (0.03 sec)
```

```
mysql> DESC DEPARTMENT;
```

```

+-----+-----+-----+-----+-----+
| Field          | Type          | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+
| DEPARTMENT_ID  | bigint        | NO   | PRI | NULL    |       |
| DEPARTMENT_NAME | varchar(30)   | NO   |     | NULL    |       |
+-----+-----+-----+-----+-----+
2 rows in set (0.01 sec)

```

```
mysql>
```

```
mysql> INSERT INTO DEPARTMENT (DEPARTMENT_ID,DEPARTMENT_NAME)
```

```
-> VALUES
```

```
-> (1, 'DEVELOPER'),  
-> (2, 'DATA MANAGEMENT'),  
-> (3, 'DATA ANALYTICS');
```

Query OK, 3 rows affected (0.01 sec)

Records: 3 Duplicates: 0 Warnings: 0

```
mysql>
```

```
mysql>
```

```
mysql> CREATE TABLE EMPLOYEE_INFO (
```

```
->  
->     E_ID INT NOT NULL,  
->     E_NAME VARCHAR(30) NOT NULL,  
->     E_PHONE BIGINT NOT NULL,  
->     E_CITY VARCHAR(30) NOT NULL,  
->     E_DEP BIGINT NOT NULL,  
->     M_ID VARCHAR(10),  
-> PRIMARY KEY(E_ID,E_PHONE),  
->     FOREIGN KEY(E_DEP) REFERENCES DEPARTMENT(DEPARTMENT_ID),  
->     FOREIGN KEY(M_ID) REFERENCES MANAGER(M_ID)  
-> );
```

Query OK, 0 rows affected (0.07 sec)

```
mysql> DESC EMPLOYEE_INFO;
```

```
+-----+-----+-----+-----+-----+-----+  
| Field      | Type          | Null | Key | Default | Extra |  
+-----+-----+-----+-----+-----+-----+  
| E_ID       | int           | NO   | PRI | NULL    |       |  
| E_NAME     | varchar(30)   | NO   |     | NULL    |       |  
| E_PHONE    | bigint        | NO   | PRI | NULL    |       |  
| E_CITY     | varchar(30)   | NO   |     | NULL    |       |  
| E_DEP      | bigint        | NO   | MUL | NULL    |       |  
| M_ID       | varchar(10)   | YES  | MUL | NULL    |       |  
+-----+-----+-----+-----+-----+-----+
```

6 rows in set (0.01 sec)

```
mysql>
```

```
mysql> INSERT INTO EMPLOYEE_INFO (E_ID,E_NAME,E_PHONE,E_CITY,E_DEP,M_ID)
```

```
-> VALUES
```

```
-> (100,'JHON WICK',1009123452,'PUNE',1,'M-12'),
-> (100,'JHON WICK',1231234321,'PUNE',3,'M-12'),
-> (101,'SALMAN KHAN',1786549873,'MUMBAI',2,NULL),
-> (101,'SALMAN KHAN',1236541246,'MUMBAI',1,NULL),
-> (102,'MOHAN LAL',1236548761,'DELHI',3,'M-10'),
-> (103,'SUMAN VARMA',176456432,'DELHI',2,NULL);
```

Query OK, 6 rows affected (0.02 sec)

Records: 6 Duplicates: 0 Warnings: 0

```
mysql> SELECT * FROM EMPLOYEE_MANAGEMENT.DEPARTMENT;
```

```
+-----+-----+
| DEPARTMENT_ID | DEPARTMENT_NAME |
+-----+-----+
|          1 | DEVELOPER       |
|          2 | DATA MANAGEMENT|
|          3 | DATA ANALYTICS |
+-----+-----+
```

3 rows in set (0.00 sec)

```
mysql> SELECT * FROM EMPLOYEE_MANAGEMENT.MANAGER;
```

```
+-----+-----+-----+-----+
| M_ID | MANAGER_NAME | MANAGER_EMAIL | MANAGER_PHONE |
+-----+-----+-----+-----+
| M-10 | MOHAN LAL    | mohan@email.com | 4445556661    |
| M-12 | JHON WICK    | jhon@email.com  | 1112221234    |
+-----+-----+-----+-----+
```

2 rows in set (0.00 sec)

```
mysql> SELECT * FROM EMPLOYEE_MANAGEMENT.EMPLOYEE_INFO;
```

```
+-----+-----+-----+-----+-----+-----+
| E_ID | E_NAME | E_PHONE | E_CITY | E_DEP | M_ID |
+-----+-----+-----+-----+-----+-----+
| 100 | JHON WICK | 1009123452 | PUNE | | 1 | M-12 |
| 100 | JHON WICK | 1231234321 | PUNE | | 3 | M-12 |
| 101 | SALMAN KHAN | 1236541246 | MUMBAI | | 1 | NULL |
| 101 | SALMAN KHAN | 1786549873 | MUMBAI | | 2 | NULL |
| 102 | MOHAN LAL | 1236548761 | DELHI | | 3 | M-10 |
| 103 | SUMAN VARMA | 176456432 | DELHI | | 2 | NULL |
+-----+-----+-----+-----+-----+-----+
```

6 rows in set (0.00 sec)

```
mysql> SELECT * FROM EMPLOYEE_MANAGEMENT.EMPLOYEE_INFO
```

```
-> WHERE E_ID = 100;
```

```
+-----+-----+-----+-----+-----+-----+
| E_ID | E_NAME      | E_PHONE      | E_CITY | E_DEP      | M_ID      |
+-----+-----+-----+-----+-----+-----+
| 100 | JHON WICK   | 1009123452   | PUNE   |             | 1 | M-12      |
| 100 | JHON WICK   | 1231234321   | PUNE   |             | 3 | M-12      |
+-----+-----+-----+-----+-----+-----+
```

2 rows in set (0.00 sec)

mysql>

```
mysql> SELECT * FROM EMPLOYEE_MANAGEMENT.EMPLOYEE_INFO
```

```
-> WHERE E_ID = 101;
```

```
+-----+-----+-----+-----+-----+-----+
| E_ID | E_NAME      | E_PHONE      | E_CITY | E_DEP      | M_ID      |
+-----+-----+-----+-----+-----+-----+
| 101 | SALMAN KHAN | 1236541246   | MUMBAI |             | 1 | NULL      |
| 101 | SALMAN KHAN | 1786549873   | MUMBAI |             | 2 | NULL      |
+-----+-----+-----+-----+-----+-----+
```

2 rows in set (0.00 sec)

mysql>

```
mysql> SELECT * FROM EMPLOYEE_MANAGEMENT.EMPLOYEE_INFO
```

```
-> WHERE E_ID = 102;
```

```
+-----+-----+-----+-----+-----+-----+
| E_ID | E_NAME      | E_PHONE      | E_CITY | E_DEP      | M_ID      |
+-----+-----+-----+-----+-----+-----+
| 102 | MOHAN LAL   | 1236548761   | DELHI  |             | 3 | M-10      |
+-----+-----+-----+-----+-----+-----+
```

1 row in set (0.00 sec)

mysql>

```
mysql> SELECT * FROM EMPLOYEE_MANAGEMENT.EMPLOYEE_INFO
```

```
-> WHERE E_ID = 103;
```

```
+-----+-----+-----+-----+-----+-----+
| E_ID | E_NAME      | E_PHONE      | E_CITY | E_DEP      | M_ID      |
+-----+-----+-----+-----+-----+-----+
| 103 | SUMAN VARMA | 176456432    | DELHI  |             | 2 | NULL      |
+-----+-----+-----+-----+-----+-----+
```

1 row in set (0.00 sec)

=====

=====

=====

```
mysql> ALTER TABLE EMPLOYEE_INFO
```

```
-> ADD COLUMN SALARY BIGINT NOT NULL;
```

```
Query OK, 0 rows affected (0.04 sec)
```

```
Records: 0 Duplicates: 0 Warnings: 0
```

```
mysql> ALTER TABLE EMPLOYEE_INFO
```

```
-> ADD BONUS BIGINT NOT NULL;
```

```
Query OK, 0 rows affected (0.03 sec)
```

```
Records: 0 Duplicates: 0 Warnings: 0
```

```
mysql> ALTER TABLE EMPLOYEE_INFO
```

```
-> ADD COLUMN T_SY BIGINT;
```

```
Query OK, 0 rows affected (0.02 sec)
```

```
Records: 0 Duplicates: 0 Warnings: 0
```

```
mysql> ALTER TABLE EMPLOYEE_INFO
```

```
-> ADD JOIN_DATE VARCHAR(200);
```

```
Query OK, 0 rows affected (0.02 sec)
```

```
Records: 0 Duplicates: 0 Warnings: 0
```

```
mysql>
```

```
mysql> SELECT * FROM EMPLOYEE_INFO;
```

```
+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
--+
| E_ID | E_NAME      | E_PHONE    | E_CITY | E_DEP      | M_ID      | SALARY | BONUS | T_SY      | JOIN_DATE |
+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
--+
| 100 | JHON WICK   | 1009123452 | PUNE   |             | 1 | M-12   | 0 | 0 | NULL | NULL |
|
| 100 | JHON WICK   | 1231234321 | PUNE   |             | 3 | M-12   | 0 | 0 | NULL | NULL |
|
| 101 | SALMAN KHAN | 1236541246 | MUMBAI |             | 1 | NULL    | 0 | 0 | NULL | NULL |
|
| 101 | SALMAN KHAN | 1786549873 | MUMBAI |             | 2 | NULL    | 0 | 0 | NULL | NULL |
|
| 102 | MOHAN LAL   | 1236548761 | DELHI  |             | 3 | M-10   | 0 | 0 | NULL | NULL |
|
| 103 | SUMAN VARMA | 176456432  | DELHI  |             | 2 | NULL    | 0 | 0 | NULL | NULL |
+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
--+
```

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

```
mysql> UPDATE EMPLOYEE_INFO
```

```
-> SET SALARY = 300000,BONUS = 3000,T_SY = 303000,JOIN_DATE = '(2003-09-09) (09:25:02)'
```

```
-> WHERE E_ID = 101 AND E_DEP = 1;
```

Query OK, 1 row affected (0.01 sec)

Rows matched: 1 Changed: 1 Warnings: 0

```
mysql>
```

```
mysql> UPDATE EMPLOYEE_INFO
```

```
-> SET SALARY = 400000,BONUS = 4000,T_SY = 404000,JOIN_DATE = '(2003-09-09) (10:25:12)'
```

```
-> WHERE E_ID = 101 AND E_DEP = 2;
```

Query OK, 1 row affected (0.01 sec)

Rows matched: 1 Changed: 1 Warnings: 0

```
mysql> UPDATE EMPLOYEE_INFO
```

```
-> SET SALARY = 530000 ,BONUS = 5000,T_SY = 535000,JOIN_DATE = '(2003-09-09) (12:25:22)'
```

```
-> WHERE E_ID = 102 AND E_DEP = 3;
```

Query OK, 1 row affected (0.01 sec)

Rows matched: 1 Changed: 1 Warnings: 0

```
mysql>
```

```
mysql> UPDATE EMPLOYEE_INFO
```

```
-> SET SALARY = 430000 ,BONUS = 4000,T_SY = 434000,JOIN_DATE = '(2003-09-09) (04:25:34)'
```

```
-> WHERE E_ID = 103 AND E_DEP = 2;
```

Query OK, 1 row affected (0.01 sec)

Rows matched: 1 Changed: 1 Warnings: 0

```
mysql>
```

```
mysql> UPDATE EMPLOYEE_INFO
```

```
-> SET SALARY = 600000,BONUS = 5500,T_SY = 605500,JOIN_DATE = '(2003-09-10) (11:25:024)'
```

```
-> WHERE E_ID = 100 AND E_DEP = 1;
```

Query OK, 1 row affected (0.01 sec)

Rows matched: 1 Changed: 1 Warnings: 0

```
mysql>
```

```
mysql> UPDATE EMPLOYEE_INFO
```

```
-> SET SALARY = 600000,BONUS = 5000,T_SY = 605000,JOIN_DATE = '(2003-09-11) (09:25:02)'
```

```
-> WHERE E_ID = 100 AND E_DEP = 3;
```

Query OK, 1 row affected (0.01 sec)

Rows matched: 1 Changed: 1 Warnings: 0

mysql>

```
mysql> INSERT INTO EMPLOYEE_INFO  
(E_ID,E_NAME,E_PHONE,E_CITY,E_DEP,M_ID,SALARY,BONUS,T_SY,JOIN_DATE)  
-> VALUES
```

```
-> (104,'SWAPNIL GAIKWAD',1233214563,'PUNE',3,NULL,300000,3000,303000,'(2003-09-09) (09:25:02)'),
```

```
-> (105,'ANISH JAKTAP',4562346541,'DELHI',3,NULL,320000,3000,323000,'(2003-09-09) (09:25:02)'),
```

```
-> (106,'ADITYA SALUNKE',5642341237,'PUNE',1,'M-10',400000,4000,404000,'(2003-09-09) (09:25:02)'),
```

```
-> (107,'SONAL PAIL',7653459875,'MUMBAI',1,NULL,320000,3000,323000,'(2003-09-09) (09:25:02)'),
```

```
-> (108,'RAGHAV THAREJA',1235674563,'DELHI',2,NULL,300000,3000,303000,'(2003-09-09) (09:25:02)');
```

Query OK, 5 rows affected (0.01 sec)

Records: 5 Duplicates: 0 Warnings: 0

mysql>

```
mysql> SELECT * FROM EMPLOYEE_INFO;
```

```
+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
--+
```

E_ID	E_NAME	E_PHONE	E_CITY	E_DEP	M_ID	SALARY	BONUS	T_SY	JOIN_DATE
100	JHON WICK	1009123452	PUNE	1	M-12	600000	5500	605500	2003-09-10 11:25:024
100	JHON WICK	1231234321	PUNE	3	M-12	600000	5000	605000	2003-09-11 09:25:02
101	SALMAN KHAN	1236541246	MUMBAI	1	NULL	300000	3000	303000	2003-09-09 09:25:02
101	SALMAN KHAN	1786549873	MUMBAI	2	NULL	400000	4000	404000	2003-09-09 10:25:12
102	MOHAN LAL	1236548761	DELHI	3	M-10	530000	5000	535000	2003-09-09 12:25:22
103	SUMAN VARMA	176456432	DELHI	2	NULL	430000	4000	434000	2003-09-09 04:25:34
104	SWAPNIL GAIKWAD	1233214563	PUNE	3	NULL	300000	3000	303000	2003-09-09 09:25:02
105	ANISH JAKTAP	4562346541	DELHI	3	NULL	320000	3000	323000	2003-09-09 09:25:02



[illegible]

mysql>

mysql> SELECT \* FROM EMPLOYEE\_INFO

-> WHERE SALARY <=400000;

```
+-----+-----+-----+-----+-----+-----+-----+-----+-----+
--+
| E_ID | E_NAME          | E_PHONE    | E_CITY | E_DEP | M_ID | SALARY | BONUS | T_SY  | JOIN_DATE
|
+-----+-----+-----+-----+-----+-----+-----+-----+-----+
--+
| 101 | SALMAN KHAN      | 1236541246 | MUMBAI | 1      | NULL | 300000 | 3000  | 303000 | 2003-09-09 09:25:02
|
| 101 | SALMAN KHAN      | 1786549873 | MUMBAI | 2      | NULL | 400000 | 4000  | 404000 | 2003-09-09 10:25:12
|
| 104 | SWAPNIL GAIKWAD  | 1233214563 | PUNE   | 3      | NULL | 300000 | 3000  | 303000 | 2003-09-09 09:25:02
|
| 105 | ANISH JAKTAP     | 4562346541 | DELHI  | 3      | NULL | 320000 | 3000  | 323000 | 2003-09-09 09:25:02
|
| 106 | ADITYA SALUNKE   | 5642341237 | PUNE   | 1      | M-10 | 400000 | 4000  | 404000 | 2003-09-09 09:25:02
|
| 107 | SONAL PAIL       | 7653459875 | MUMBAI | 1      | NULL | 320000 | 3000  | 323000 | 2003-09-09 09:25:02
|
| 108 | RAGHAV THAREJA   | 1235674563 | DELHI  | 2      | NULL | 300000 | 3000  | 303000 | 2003-09-09 09:25:02
|
+-----+-----+-----+-----+-----+-----+-----+-----+-----+
--+
7 rows in set (0.00 sec)
```

mysql> SELECT \* FROM EMPLOYEE\_INFO

-> WHERE SALARY >500000;

```
+-----+-----+-----+-----+-----+-----+-----+-----+-----+
| E_ID | E_NAME          | E_PHONE    | E_CITY | E_DEP | M_ID | SALARY | BONUS | T_SY  | JOIN_DATE
|
+-----+-----+-----+-----+-----+-----+-----+-----+-----+
| 100 | JHON WICK       | 1009123452 | PUNE   | 1      | M-12 | 600000 | 5500  | 605500 | 2003-09-10 11:25:024 |
| 100 | JHON WICK       | 1231234321 | PUNE   | 3      | M-12 | 600000 | 5000  | 605000 | 2003-09-11 09:25:02  |
| 102 | MOHAN LAL       | 1236548761 | DELHI  | 3      | M-10 | 530000 | 5000  | 535000 | 2003-09-09 12:25:22  |
|
+-----+-----+-----+-----+-----+-----+-----+-----+-----+
3 rows in set (0.00 sec)
```

mysql>

mysql> SELECT \* FROM EMPLOYEE\_INFO

-> WHERE E\_CITY = 'PUNE' AND E\_DEP = 1;

mysql>

mysql> SELECT \* FROM EMPLOYEE\_INFO

-> WHERE E\_ID = 106 AND M\_ID = 'M-10';

```

+-----+-----+-----+-----+-----+-----+-----+-----+-----+
+
| E_ID | E_NAME          | E_PHONE      | E_CITY | E_DEP | M_ID | SALARY | BONUS | T_SY  | JOIN_DATE
|
+-----+-----+-----+-----+-----+-----+-----+-----+-----+
+
| 106 | ADITYA SALUNKE | 5642341237 | PUNE   |      1 | M-10 | 400000 | 4000  | 404000 | 2003-09-09 09:25:02
|
+-----+-----+-----+-----+-----+-----+-----+-----+-----+
+
1 row in set (0.00 sec)

```

mysql>

```

mysql> SELECT * FROM EMPLOYEE_INFO
      -> WHERE SALARY = 400000 OR SALARY = 400000;

```

```

+-----+-----+-----+-----+-----+-----+-----+-----+-----+
+
| E_ID | E_NAME          | E_PHONE      | E_CITY | E_DEP | M_ID | SALARY | BONUS | T_SY  | JOIN_DATE
|
+-----+-----+-----+-----+-----+-----+-----+-----+-----+
+
| 101 | SALMAN KHAN     | 1786549873 | MUMBAI |      2 | NULL | 400000 | 4000  | 404000 | 2003-09-09 10:25:12
|
| 106 | ADITYA SALUNKE | 5642341237 | PUNE   |      1 | M-10 | 400000 | 4000  | 404000 | 2003-09-09 09:25:02
|
+-----+-----+-----+-----+-----+-----+-----+-----+-----+
+
2 rows in set (0.00 sec)

```

```

mysql> SELECT * FROM EMPLOYEE_INFO
      -> WHERE NOT SALARY>400000;

```

```

+-----+-----+-----+-----+-----+-----+-----+-----+-----+
+
| E_ID | E_NAME          | E_PHONE      | E_CITY | E_DEP | M_ID | SALARY | BONUS | T_SY  | JOIN_DATE
|
+-----+-----+-----+-----+-----+-----+-----+-----+-----+
+
| 101 | SALMAN KHAN     | 1236541246 | MUMBAI |      1 |      | NULL | 300000 | 3000  | 303000 | 2003-09-09
09:25:02 |
| 101 | SALMAN KHAN     | 1786549873 | MUMBAI |      2 |      | NULL | 400000 | 4000  | 404000 | 2003-09-09 10:25:12
|
| 104 | SWAPNIL GAIKWAD | 1233214563 | PUNE   |      3 |      | NULL | 300000 | 3000  | 303000 | 2003-09-09 09:25:02
|
| 105 | ANISH JAKTAP    | 4562346541 | DELHI  |      3 |      | NULL | 320000 | 3000  | 323000 | 2003-09-09 09:25:02
|
| 106 | ADITYA SALUNKE | 5642341237 | PUNE   |      1 | M-10 | 400000 | 4000  | 404000 | 2003-09-09 09:25:02
|
| 107 | SONAL PAIL      | 7653459875 | MUMBAI |      1 |      | NULL | 320000 | 3000  | 323000 | 2003-09-09 09:25:02
|
| 108 | RAGHAV THAREJA  | 1235674563 | DELHI  |      2 |      | NULL | 300000 | 3000  | 303000 | 2003-09-09 09:25:02
|

```

```
+-----+-----+-----+-----+-----+-----+-----+-----+-----+
+
7 rows in set (0.00 sec)
```

```
# ===== 2. Boolean operators and pattern matching
=====
```

```
# BOOLEAN OPERATORS MEANS AND OR NOT
```

```
mysql> SELECT * FROM EMPLOYEE_INFO
```

```
-> WHERE E_CITY = 'PUNE' AND E_DEP = 1;
```

```
+-----+-----+-----+-----+-----+-----+-----+-----+-----+
--+
| E_ID | E_NAME          | E_PHONE    | E_CITY | E_DEP | M_ID | SALARY | BONUS | T_SY  | JOIN_DATE
|
+-----+-----+-----+-----+-----+-----+-----+-----+-----+
--+
| 100 | JHON WICK        | 1009123452 | PUNE   | 1      | M-12 | 600000 | 5500  | 605500 | 2003-09-10 11:25:024
|
| 106 | ADITYA SALUNKE   | 5642341237 | PUNE   | 1      | M-10 | 400000 | 4000  | 404000 | 2003-09-09 09:25:02
|
+-----+-----+-----+-----+-----+-----+-----+-----+-----+
--+
2 rows in set (0.00 sec)
```

```
mysql>
```

```
mysql> SELECT * FROM EMPLOYEE_INFO
```

```
-> WHERE E_ID = 106 AND M_ID = 'M-10';
```

```
+-----+-----+-----+-----+-----+-----+-----+-----+-----+
+
| E_ID | E_NAME          | E_PHONE    | E_CITY | E_DEP | M_ID | SALARY | BONUS | T_SY  | JOIN_DATE
|
+-----+-----+-----+-----+-----+-----+-----+-----+-----+
+
| 106 | ADITYA SALUNKE   | 5642341237 | PUNE   | 1      | M-10 | 400000 | 4000  | 404000 | 2003-09-09 09:25:02
|
+-----+-----+-----+-----+-----+-----+-----+-----+-----+
+
1 row in set (0.00 sec)
```

```
mysql>
```

```
mysql> SELECT * FROM EMPLOYEE_INFO
```

```
-> WHERE SALARY = 400000 OR SALARY = 400000;
```

```
+-----+-----+-----+-----+-----+-----+-----+-----+-----+
+
| E_ID | E_NAME          | E_PHONE    | E_CITY | E_DEP | M_ID | SALARY | BONUS | T_SY  | JOIN_DATE
|
+-----+-----+-----+-----+-----+-----+-----+-----+-----+
+

```

```
| 101 | SALMAN KHAN | 1786549873 | MUMBAI | 2 | NULL | 400000 | 4000 | 404000 | 2003-09-09 10:25:12 |
|
| 106 | ADITYA SALUNKE | 5642341237 | PUNE | 1 | M-10 | 400000 | 4000 | 404000 | 2003-09-09 09:25:02 |
|
+-----+-----+-----+-----+-----+-----+-----+-----+-----+
+
2 rows in set (0.00 sec)
```

```
mysql>
```

```
mysql> SELECT * FROM EMPLOYEE_INFO
-> WHERE NOT SALARY>400000;
```

```
+-----+-----+-----+-----+-----+-----+-----+-----+-----+
| E_ID | E_NAME | E_PHONE | E_CITY | E_DEP | M_ID | SALARY | BONUS | T_SY | JOIN_DATE |
+-----+-----+-----+-----+-----+-----+-----+-----+-----+
| 101 | SALMAN KHAN | 1236541246 | MUMBAI | 1 | NULL | 300000 | 3000 | 303000 | 2003-09-09 09:25:02 |
| 101 | SALMAN KHAN | 1786549873 | MUMBAI | 2 | NULL | 400000 | 4000 | 404000 | 2003-09-09 10:25:12 |
| 104 | SWAPNIL GAIKWAD | 1233214563 | PUNE | 3 | NULL | 300000 | 3000 | 303000 | 2003-09-09 09:25:02 |
| 105 | ANISH JAKTAP | 4562346541 | DELHI | 3 | NULL | 320000 | 3000 | 323000 | 2003-09-09 09:25:02 |
| 106 | ADITYA SALUNKE | 5642341237 | PUNE | 1 | M-10 | 400000 | 4000 | 404000 | 2003-09-09 09:25:02 |
| 107 | SONAL PAIL | 7653459875 | MUMBAI | 1 | NULL | 320000 | 3000 | 323000 | 2003-09-09 09:25:02 |
| 108 | RAGHAV THAREJA | 1235674563 | DELHI | 2 | NULL | 300000 | 3000 | 303000 | 2003-09-09 09:25:02 |
+-----+-----+-----+-----+-----+-----+-----+-----+-----+
7 rows in set (0.00 sec)
```

```
# ===== 3. Arithmetic operations and built in
functions =====
```

```
mysql> SELECT SALARY + BONUS ,E_NAME AS T_SY FROM EMPLOYEE_INFO;
```

```
+-----+-----+
| SALARY + BONUS | T_SY |
+-----+-----+
| 605500 | JHON WICK |
| 605000 | JHON WICK |
| 303000 | SALMAN KHAN |
| 404000 | SALMAN KHAN |
| 535000 | MOHAN LAL |
| 434000 | SUMAN VARMA |
| 303000 | SWAPNIL GAIKWAD |
| 323000 | ANISH JAKTAP |
| 404000 | ADITYA SALUNKE |
| 323000 | SONAL PAIL |
```

```
|          303000 | RAGHAV THAREJA |
|          303000 | SWAPNIL PATIL   |
|          303000 | AMIT WAGMARE    |
+-----+-----+
13 rows in set (0.00 sec)
```

mysql>

```
mysql> SELECT SALARY - BONUS ,E_NAME AS T_SY FROM EMPLOYEE_INFO;
```

```
+-----+-----+
| SALARY - BONUS | T_SY          |
+-----+-----+
|          594500 | JHON WICK     |
|          595000 | JHON WICK     |
|          297000 | SALMAN KHAN   |
|          396000 | SALMAN KHAN   |
|          525000 | MOHAN LAL     |
|          426000 | SUMAN VARMA   |
|          297000 | SWAPNIL GAIKWAD |
|          317000 | ANISH JAKTAP  |
|          396000 | ADITYA SALUNKE |
|          317000 | SONAL PAIL    |
|          297000 | RAGHAV THAREJA |
|          297000 | SWAPNIL PATIL  |
|          297000 | AMIT WAGMARE   |
+-----+-----+
13 rows in set (0.00 sec)
```

```
# ===== 5. Processing Date and Time functions =====
```

```
# DATETIME YYYY-MM-DD HH:MM:SS      1000-01-01 00:00:00 to 9999-12-31 23:59:59
```

```
mysql> INSERT INTO
EMPLOYEE_INFO(E_ID,E_NAME,E_PHONE,E_CITY,E_DEP,M_ID,SALARY,BONUS,T_SY,JOIN_DATE)
```

```
-> VALUES
```

```
-> (109,'SWAPNIL PATIL',1233214663,'PUNE',3,NULL,300000,3000,303000,now()),
```

```
-> (110,'AMIT WAGMARE',1222214563,'MUMBAI',2,NULL,300000,3000,303000,now());
```

Query OK, 2 rows affected (0.01 sec)

Records: 2 Duplicates: 0 Warnings: 0

```
mysql> SELECT * FROM EMPLOYEE_INFO;
```

E_ID	E_NAME	E_PHONE	E_CITY	E_DEP	M_ID	SALARY	BONUS	T_SY	JOIN_DATE
100	JHON WICK	1009123452	PUNE	1	M-12	600000	5500	605500	2003-09-10 11:25:24
100	JHON WICK	1231234321	PUNE	3	M-12	600000	5000	605000	2003-09-11 09:25:02
101	SALMAN KHAN	1236541246	MUMBAI	1	NULL	300000	3000	303000	2003-09-09 09:25:02
101	SALMAN KHAN	1786549873	MUMBAI	2	NULL	400000	4000	404000	2003-09-09 10:25:12
102	MOHAN LAL	1236548761	DELHI	3	M-10	530000	5000	535000	2003-09-09 12:25:22
103	SUMAN VARMA	176456432	DELHI	2	NULL	430000	4000	434000	2003-09-09 04:25:34
104	SWAPNIL GAIKWAD	1233214563	PUNE	3	NULL	300000	3000	303000	2003-09-09 09:25:02
105	ANISH JAKTAP	4562346541	DELHI	3	NULL	320000	3000	323000	2003-09-09 09:25:02
106	ADITYA SALUNKE	5642341237	PUNE	1	M-10	400000	4000	404000	2003-09-09 09:25:02
107	SONAL PAIL	7653459875	MUMBAI	1	NULL	320000	3000	323000	2003-09-09 09:25:02
108	RAGHAV THAREJA	1235674563	DELHI	2	NULL	300000	3000	303000	2003-09-09 09:25:02
109	SWAPNIL PATIL	1233214663	PUNE	3	NULL	300000	3000	303000	2023-05-01 23:46:57
110	AMIT WAGMARE	1222214563	MUMBAI	2	NULL	300000	3000	303000	2023-05-01 23:46:57

13 rows in set (0.00 sec)