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 |

| 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 |

+------+-----------------+------------+--------+-------+------+--------+-------+--------+----------------------+

11 rows in set (0.00 sec)

# ==================== 1.Implementation of relational operators in SQL ===========================

# OPERATORS LIKE { =, <, >, <=, >= }

mysql> SELECT \* FROM EMPLOYEE\_INFO

-> WHERE SALARY = 600000;

+------+-----------+------------+--------+-------+------+--------+-------+--------+----------------------+

| 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 |

+------+-----------+------------+--------+-------+------+--------+-------+--------+----------------------+

2 rows in set (0.00 sec)

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 |

+------+----------------+------------+--------+-------+------+--------+-------+--------+----------------------+

| 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 | 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 |

| 106 | ADITYA SALUNKE | 5642341237 | PUNE | 1 | M-10 | 400000 | 4000 | 404000 | 2003-09-09 09:25:02 |

+------+----------------+------------+--------+-------+------+--------+-------+--------+----------------------+

6 rows in set (0.00 sec)

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 =========================================

# BOOLEN 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)