**DBMS ASSIGNMENT 4**

**C:\Users\ameyk>mysql -u root -p**

Enter password: \*\*\*\*\*\*\*\*\*\*

Welcome to the MySQL monitor. Commands end with ; or \g.

Your MySQL connection id is 10

Server version: 8.0.40 MySQL Community Server - GPL

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owners.

Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

**mysql> show databases;**

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

| Database |

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

| assignment3 |

| information\_schema |

| librarydb |

| management |

| mysql |

| performance\_schema |

| sakila |

| sql\_data |

| syita |

| sys |

| university |

| world |

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

12 rows in set (0.00 sec)

**mysql> create database assignment4;**

Query OK, 1 row affected (0.01 sec)

mysql> show databases;

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

| Database |

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

| assignment3 |

| assignment4 |

| information\_schema |

| librarydb |

| management |

| mysql |

| performance\_schema |

| sakila |

| sql\_data |

| syita |

| sys |

| university |

| world |

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

**mysql> use assignment4;**

Database changed

**mysql> CREATE TABLE employee (**

**-> e\_id INT PRIMARY KEY,**

**-> firstname VARCHAR(50),**

**-> lastname VARCHAR(50),**

**-> salary DECIMAL(10, 2),**

**-> d\_id INT);**

Query OK, 0 rows affected (0.03 sec)

**mysql> CREATE TABLE department (**

**-> d\_id INT PRIMARY KEY,**

**-> name VARCHAR(50)**

**-> );**

Query OK, 0 rows affected (0.03 sec)

**mysql> INSERT INTO employee (e\_id, firstname, lastname, salary, d\_id) VALUES**

**-> (1, 'Om', 'Jejurkar', 10000000, 101),**

**-> (2, 'Gaurav', 'Gaikwad', 550000, 102),**

**-> (3, 'Yash', 'Dabhade', 6000000, 101),**

**-> (4, 'Soham', 'Deshmukh', 200000, 103),**

**-> (5, 'Shailesh', 'Baviskar', 1500000, 102),**

**-> (6, 'Sunny', 'Bansode', 500000, 104),**

**-> (7, 'Prathamesh', 'Ghorpade', 50000, 106);**

Query OK, 7 rows affected (0.01 sec)

Records: 7 Duplicates: 0 Warnings: 0

**mysql> INSERT INTO department (d\_id, name) VALUES**

**-> (101, 'Senior Developer'),**

**-> (102, 'Android Developer'),**

**-> (103, 'Backend Developer'),**

**-> (104, 'Database Developer'),**

**-> (105, 'AI Developer'),**

**-> (106, NULL),**

**-> (107, NULL);**

Query OK, 7 rows affected (0.00 sec)

Records: 7 Duplicates: 0 Warnings: 0

**mysql> SELECT e.e\_id, e.firstname, e.lastname, e.salary, e.d\_id, d.d\_id, d.name**

**-> FROM employee e**

**-> RIGHT JOIN department d ON e.d\_id = d.d\_id;**

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

| e\_id | firstname | lastname | salary | d\_id | d\_id | name |

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

| 3 | Yash | Dabhade | 6000000.00 | 101 | 101 | Senior Developer |

| 1 | Om | Jejurkar | 10000000.00 | 101 | 101 | Senior Developer |

| 5 | Shailesh | Baviskar | 1500000.00 | 102 | 102 | Android Developer |

| 2 | Gaurav | Gaikwad | 550000.00 | 102 | 102 | Android Developer |

| 4 | Soham | Deshmukh | 200000.00 | 103 | 103 | Backend Developer |

| 6 | Sunny | Bansode | 500000.00 | 104 | 104 | Database Developer |

| NULL | NULL | NULL | NULL | NULL | 105 | AI Developer |

| 7 | Prathamesh | Ghorpade | 50000.00 | 106 | 106 | NULL |

| NULL | NULL | NULL | NULL | NULL | 107 | NULL |

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

9 rows in set (0.00 sec)

**mysql> SELECT e.e\_id, e.firstname, e.lastname, e.salary, e.d\_id, d.d\_id, d.name**

**-> FROM employee e**

**-> LEFT JOIN department d ON e.d\_id = d.d\_id;**

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

| e\_id | firstname | lastname | salary | d\_id | d\_id | name |

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

| 1 | Om | Jejurkar | 10000000.00 | 101 | 101 | Senior Developer |

| 2 | Gaurav | Gaikwad | 550000.00 | 102 | 102 | Android Developer |

| 3 | Yash | Dabhade | 6000000.00 | 101 | 101 | Senior Developer |

| 4 | Soham | Deshmukh | 200000.00 | 103 | 103 | Backend Developer |

| 5 | Shailesh | Baviskar | 1500000.00 | 102 | 102 | Android Developer |

| 6 | Sunny | Bansode | 500000.00 | 104 | 104 | Database Developer |

| 7 | Prathamesh | Ghorpade | 50000.00 | 106 | 106 | NULL |

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

7 rows in set (0.00 sec)

**mysql> SELECT e.e\_id, e.firstname, e.lastname, e.salary, e.d\_id, d.d\_id, d.name**

**-> FROM employee e**

**-> INNER JOIN department d ON e.d\_id = d.d\_id;**

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

| e\_id | firstname | lastname | salary | d\_id | d\_id | name |

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

| 1 | Om | Jejurkar | 10000000.00 | 101 | 101 | Senior Developer |

| 2 | Gaurav | Gaikwad | 550000.00 | 102 | 102 | Android Developer |

| 3 | Yash | Dabhade | 6000000.00 | 101 | 101 | Senior Developer |

| 4 | Soham | Deshmukh | 200000.00 | 103 | 103 | Backend Developer |

| 5 | Shailesh | Baviskar | 1500000.00 | 102 | 102 | Android Developer |

| 6 | Sunny | Bansode | 500000.00 | 104 | 104 | Database Developer |

| 7 | Prathamesh | Ghorpade | 50000.00 | 106 | 106 | NULL |

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

7 rows in set (0.00 sec)

**mysql> SELECT e.e\_id, e.firstname, e.lastname, e.salary, e.d\_id, d.d\_id, d.name**

**-> FROM employee e**

**-> LEFT JOIN department d ON e.d\_id = d.d\_id**

**->**

**-> UNION**

**->**

**-> SELECT e.e\_id, e.firstname, e.lastname, e.salary, e.d\_id, d.d\_id, d.name**

**-> FROM employee e**

**-> RIGHT JOIN department d ON e.d\_id = d.d\_id;**

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

| e\_id | firstname | lastname | salary | d\_id | d\_id | name |

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

| 1 | Om | Jejurkar | 10000000.00 | 101 | 101 | Senior Developer |

| 2 | Gaurav | Gaikwad | 550000.00 | 102 | 102 | Android Developer |

| 3 | Yash | Dabhade | 6000000.00 | 101 | 101 | Senior Developer |

| 4 | Soham | Deshmukh | 200000.00 | 103 | 103 | Backend Developer |

| 5 | Shailesh | Baviskar | 1500000.00 | 102 | 102 | Android Developer |

| 6 | Sunny | Bansode | 500000.00 | 104 | 104 | Database Developer |

| 7 | Prathamesh | Ghorpade | 50000.00 | 106 | 106 | NULL |

| NULL | NULL | NULL | NULL | NULL | 105 | AI Developer |

| NULL | NULL | NULL | NULL | NULL | 107 | NULL |

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

9 rows in set (0.00 sec)

mysql> select e\_id, firstname, lastname, salary From employee

-> where salary > ANY (select salary from employee

-> where d\_id IN ( select d\_id from department where name = 'database developer')

-> );

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

| e\_id | firstname | lastname | salary |

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

| 1 | Om | Jejurkar | 10000000.00 |

| 2 | Gaurav | Gaikwad | 550000.00 |

| 3 | Yash | Dabhade | 6000000.00 |

| 5 | Shailesh | Baviskar | 1500000.00 |

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

4 rows in set (0.00 sec)

mysql> select e\_id, firstname, lastname, salary from employee

-> where salary = (select min(salary) from employee);

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

| e\_id | firstname | lastname | salary |

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

| 7 | Prathamesh | Ghorpade | 50000.00 |

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

1 row in set (0.00 sec)

mysql> select e\_id, firstname, lastname, salary from employee

-> where salary >= (select MAX(salary) from employee

-> where d\_id IN (select d\_id from department where name = 'database developer')

-> );

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

| e\_id | firstname | lastname | salary |

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

| 1 | Om | Jejurkar | 10000000.00 |

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

1 row in set (0.00 sec)

mysql> select e\_id, firstname, lastname, salary from employee

-> where d\_id NOT IN (select d\_id from department where name = 'database developer');

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

| e\_id | firstname | lastname | salary |

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

| 2 | Gaurav | Gaikwad | 550000.00 |

| 4 | Soham | Deshmukh | 200000.00 |

| 5 | Shailesh | Baviskar | 1500000.00 |

| 7 | Prathamesh | Ghorpade | 50000.00 |

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

4 rows in set (0.00 sec)