## NAME – Sayan Paul ROLL - 21CS8056 ASSIGNMENT - 6

Table 1: TABLE emp (emp no (PK), emp name VARCHAR(50), job VARCHAR(50), mgr no INT, hiredate DATE, sal FLOAT, dept no INT (FK))

Table 2: TABLE dept ( dept no (PK), dept name VARCHAR(50), loc VARCHAR(50) )

1. Write a query to display employee name and hiredate for all employees in the same department as Blake. Exclude Blake.

2. Create a query to display the employee number and name for all employees who earn more than the average salary. Sort the results in descending order of salary.

```
mysql> SELECT emp_no, emp_name
    -> FROM emp
    -> WHERE sal > (
    -> SELECT AVG(sal)
    -> FROM emp
    -> )
    -> ORDER BY sal DESC;
+-----+
| emp_no | emp_name |
+-----+
| 9 | King |
| 4 | Blake |
| 1 | John |
+-----+
3 rows in set (0.00 sec)
```

3. Write a query to display the employee number and name for all employees who work in a department with any employee whose name contains a T.

```
mysql> SELECT e.emp_no, e.emp_name, e.sal
    -> FROM emp e
    -> WHERE e.sal > (
           SELECT AVG(sal)
    ->
           FROM emp
    ->
    -> ) AND e.dept_no IN (
           SELECT dept_no
    ->
           FROM emp
    ->
           WHERE emp_name LIKE '%T%'
    ->
    ->);
  emp_no |
          emp_name
                      sal
       1
           John
                      60000
           King
                      80000
2 rows in set (0.01 sec)
```

4. Display the employee name, department number, and job title for all employees whose department location is Dallas.

```
mysql> SELECT e.emp_name, e.dept_no, e.job
    -> FROM emp e
    -> JOIN dept d ON e.dept_no = d.dept_no
    -> WHERE d.loc = 'Dallas';
 emp_name | dept_no | job
 John
                       Manager
 Alice
                   1
                     | Salesperson
 Bob
                   1 | Salesperson
  Thomas
                      Salesperson
                   1
 King
                     | CEO
5 rows in set (0.00 sec)
```

5. Display the employee name and salary of all employees who report to the manager (named King).

```
mysql> SELECT emp_name, sal
    -> FROM emp
    -> WHERE mgr_no = (
           SELECT emp_no
           FROM emp
    ->
           WHERE emp_name = 'King'
    ->
    -> );
  emp_name
             sal
 John
             60000
  Alice
             45000
  Bob
             40000
             41000
  Thomas
4 rows in set (0.00 sec)
```

6. Display the department number, name, and job for all employees in the Sales department.

```
mysql> SELECT e.dept_no, d.dept_name, e.job
    -> FROM emp e
    -> JOIN dept d ON e.dept_no = d.dept_no
    -> WHERE d.dept_name = 'Sales';
 dept_no | dept_name | job
        1 I
            Sales
                        Manager
        1
            Sales
                        Salesperson
            Sales
                        Salesperson
        1
            Sales
                        Salesperson
            Sales
                        CEO
5 rows in set (0.00 sec)
```

7. Write a query to display the employee number, name, and salary for all employees who earn more than the average salary and who work in a department with any employee with a T in their name.

```
mysql> SELECT e.emp_no, e.emp_name, e.sal
    -> FROM emp e
    -> WHERE e.sal > (
           SELECT AVG(sal)
           FROM emp
    ->
    -> ) AND e.dept_no IN (
           SELECT dept_no
    ->
    ->
           FROM emp
           WHERE emp_name LIKE '%T%'
    ->
    -> );
           emp_name
                      sal
  emp_no
                      60000
           John
       1
           King
                       80000
2 rows in set (0.01 sec)
```