DAY 7

```
PRN : 200243020003
```

Displaying data from multiple tables.

1. Write a query for the HR department to produce the addresses of all the departments. Use the LOCATIONS and COUNTRIES tables. Show the location ID, street address, city, state or province, and country in the output. Use a NATURAL JOIN to produce the results

```
SELECT
   d.department_id,
   d.DEPARTMENT_NAME,
   l.location_id,
   l.street_address,
   l.city,
   l.STATE_PROVINCE,
   c.COUNTRY_NAME
FROM
   departments d
   JOIN locations l ON (l.location_id = d.location_id)
   JOIN countries c ON (c.country_id = l.country_id);
```

2. Write a query to display the last name, department number, and department name for all the employees.

```
SELECT
    last_name,
    department_id,
    department_name
FROM
    employees
    JOIN departments USING (department_id);
```

3. Display the last name, job, department number, and the department name for all employees who work in Toronto (use table LOCATIONS)

```
SELECT
    e.last_name,
    jj.job_title,
    d.department_id,
    d.department_name
```

```
FROM
    employees e
    JOIN departments d ON (d.department_id = e.department_id)
    JOIN job_history j ON (j.employee_id = e.employee_id)
    JOIN jobs jj ON (jj.job_id = j.job_id)
    JOIN locations l ON (l.location_id = d.location_id)
WHERE
    city = 'Toronto';
```

4. Create a report to display employees? last name and employee number along with their manager?s last name and manager number. Label the columns Employee, Emp#, Manager, and Mgr#, respectively

```
select emp.employee_id "Emp#",emp.last_name "Empname",mgr.employee_id
"Mid#",mgr.last_name "Mgrname" from employees emp join employees mgr
on(emp.manager_id=mgr.employee_id);
```

5. Modify query no. 4 to display all employees including King, who has no manager. Order the results by the employee number.

```
SELECT
    e.last_name,
    e.employee_id,
    m.last_name,
    m.employee_id
FROM
    employees e
    LEFT JOIN employees m ON (e.manager_id = m.employee_id)
ORDER BY
    e.last_name;
```

6. Create a report for the HR department that displays employee last names, department numbers, and all the employees who work in the same department as a given employee prompted on screen.

```
SELECT
    last_name,
    department_id
FROM
    employees
    JOIN departments d USING (department_id)
WHERE
    d.department_name LIKE '%&nm%';
```

7. Create a query that displays the name, job, department name, salary, and grade for all employees. (use table SALGRADE)

```
SELECT
    last_name, job_id, department_name, salary, grade
FROM
    employees e
    JOIN departments d USING (department_id)
    JOIN salgrade s ON (e.salary BETWEEN s.losal
    AND s.hisal);
```

8. The HR department needs to find the names and hire dates of all the employees who were hired before their managers, along with their managers? names and hire dates.

```
SELECT
    e.last_name,
    e.hire_date,
    m.last_name,
    m.hire_date
FROM
    employees e
    JOIN employees m ON (e.manager_id = m.employee_id)
WHERE
    e.hire_date < m.hire_date;
```

9. Display id,city,state for city 'Manchester' (use table states and stations) Describe and check the column headings

```
SELECT
    id,
    city,
    statename
FROM
    station
    JOIN states ON (stateid = state)
WHERE
    city = 'manchester';
```

10. Display id,city,state and location name for city .(use station and location tables)

```
SELECT
    id,
    city,
    state,
    locationname
FROM
```

```
    station
    JOIN LOCATION ON (id = locationid);
```

11. Display stateid,statename its city and location

```
SELECT
    stateid,
    statename,
    CITY,
    LAT_N,
    LONG_W
FROM
    STATES
    JOIN STATION ON (state = stateid);
```

12. Display custid,name,orderdate,shipping date and total amount of order (use table customer and ord)

```
SELECT
    c.custid,
    c.name,
    o.ORDERDATE,
    o.shipdate,
    o.total
FROM
    customer c
    JOIN ord o ON (c.custid = o.custid);
```

13. Display itemid its actualprice and product description. (use table item and product)

```
SELECT
    itemid,
    actualprice,
    descrip
FROM
    item i
    JOIN product p ON (p.prodid = i.prodid);
```

14. Display all orders with orderdate and total for cuutomer JOCKSPORTS (use table customer and ord)

```
SELECT
    o.orderdate,
    o.total
```

```
FROM
    customer c
    JOIN ord o ON (o.custid = c.custid)
WHERE
    name = 'JOCKSPORTS';
```