SURIYA S
225229140
SUB QUERIES

```
SQL> select * from dept;

DEPARTMENT_ID             DEPARTMENT_NAME        MANAGER_ID   LOCATION_ID
-------------             ---------------      ----------    -----------
           10              admininstration         200        1700
           20              marketing               201        1700
           30              purchasing              202        1800
           40              humanresource           203        1900
           50              payroll                 204        1700
           60              shipping                205        1900
           70              sales                   206        1700
           80              contracting             207        1700

8 rows selected.
SQL> select * from employees;

    EMP_ID FIRST_NAME LAST_NAME  HIRE_DATE     JOB_ID     SALARY
COMMISSION
---------- ---------- ---------- ------------ ---------- ---------- ----
------
MANAGER_ID DEPARTMENT_ID
---------- -------------
       100 swetha     jenifer    10-DEC-2021   M_P        70000      .1
       201            20

       101 chandler   bing       11-AUG-2021   HR         45000      .19
       203            40

       102 monica     geller     24-SEP-2021   P_EMP      13000      .2
       202            30


    EMP_ID FIRST_NAME LAST_NAME  HIRE_DATE     JOB_ID     SALARY
COMMISSION
---------- ---------- ---------- ------------ ---------- ---------- ----
------
MANAGER_ID DEPARTMENT_ID
---------- -------------
       103 racheal    green      10-SEP-2020   A_VP       25000      .16
       200            10

       104 phoebe     buffay     11-FEB-2021   M_VP       60000      .3
       201            20

       105 ross       geller     18-MAY-2022   S_EMP      10000      .13
       206            70


    EMP_ID FIRST_NAME LAST_NAME  HIRE_DATE     JOB_ID     SALARY
COMMISSION
---------- ---------- ---------- ------------ ---------- ---------- ----
------
MANAGER_ID DEPARTMENT_ID
---------- -------------
       106 dinesh     kumar      17-MAR-2022   PY_EMP     12000      .16
       204            50
```

```
       107 hari       prasath    09-OCT-2021   C_MD       45000      .18
       207            80

       108 yoga       eshwari    01-SEP-2021   S_EXE      35000      .1
       206            70


    EMP_ID FIRST_NAME LAST_NAME  HIRE_DATE     JOB_ID     SALARY
COMMISSION
---------- ---------- ---------- ------------- ---------- ---------- ----
------
MANAGER_ID DEPARTMENT_ID
---------- -------------
       109 rolex      suriya     11-NOV-2021   A_EXE      50000      .11
       200            10

       110 newlin     blessy     09-JUN-2021   P_EXE      25000      .1
       202            30

       111 joshwa     peter      18-JUL-2020   SP_EXE     36000      .16
       205            60


    EMP_ID FIRST_NAME LAST_NAME  HIRE_DATE     JOB_ID     SALARY
COMMISSION
---------- ---------- ---------- ------------- ---------- ---------- ----
------
MANAGER_ID DEPARTMENT_ID
---------- -------------
       112 sam        victor     09-JAN-2020   CNTR       40000      .14
       207            80

       113 harish     umesh      03-DEC-2021   S_MD       23000      .1
       206            70


14 rows selected.
1. write a SQL query to find those employees who receive a higher salary
than the
employee with ID 163. Return first name, last name.
SQL> SELECT first_name, last_name FROM employees WHERE salary > ( SELECT
salary FROM employees WHERE emp_id=102 );

FIRST_NAME LAST_NAME
---------- ----------
swetha     jenifer
chandler   bing
racheal    green
phoebe     buffay
hari       prasath
yoga       eshwari
rolex      suriya
newlin     blessy
joshwa     peter
sam        victor
harish     umesh

11 rows selected.
2. write a SQL query to find out which employees have the same
designation as
```

the employee whose ID is 169. Return first name, last name, department ID and
job ID.

```
SQL> SELECT first_name, last_name, salary, department_id, job_id FROM
employees WHERE job_id = ( SELECT job_id FROM employees WHERE emp_id=103
);

FIRST_NAME LAST_NAME  SALARY     DEPARTMENT_ID JOB_ID
---------- ---------- ---------- ------------- ----------
racheal    green      25000                 10 A_VP
```

3. write a SQL query to find those employees whose salary matches the lowest
salary of any of the departments. Return first name, last name and department
ID.

```
SQL> SELECT first_name, last_name, salary, department_id FROM employees
WHERE salary IN ( SELECT MIN(salary) FROM employees GROUP BY
department_id );

FIRST_NAME LAST_NAME  SALARY     DEPARTMENT_ID
---------- ---------- ---------- -------------
chandler   bing       45000                40
monica     geller     13000                30
racheal    green      25000                10
phoebe     buffay     60000                20
ross       geller     10000                70
dinesh     kumar      12000                50
hari       prasath    45000                80
newlin     blessy     25000                30
joshwa     peter      36000                60
sam        victor     40000                80

10 rows selected.
```

4. write a SQL query to find those employees who earn more than the average
salary. Return employee ID, first name, last name.

```
SQL> SELECT emp_id, first_name,last_name FROM employees WHERE salary > (
SELECT AVG(salary) FROM employees );

    EMP_ID FIRST_NAME LAST_NAME
---------- ---------- ----------
       100 swetha     jenifer
       101 chandler   bing
       104 phoebe     buffay
       107 hari       prasath
       108 yoga       eshwari
       109 rolex      suriya
       111 joshwa     peter
       112 sam        victor

8 rows selected.
```

5. write a SQL query to find those employees who report to that manager whose
first name is ‘Payam’. Return first name, last name, employee ID and salary.

```
SQL> SELECT first_name, last_name, emp_id, salary FROM employees WHERE
manager_id = (SELECT manager_id FROM employees WHERE first_name =
'newlin' );

FIRST_NAME LAST_NAME      EMP_ID SALARY
```

```
---------- ---------- ---------- ----------
monica     geller            102 13000
newlin     blessy            110 25000
```

6. write a SQL query to find all those employees who work in the Finance department. Return department ID, name (first), job ID and department name.

```
SQL> SELECT e.department_id, e.first_name, e.job_id , d.department_name
FROM employees e , dept d WHERE e.department_id = d.department_id AND
d.department_name = 'marketing';

DEPARTMENT_ID FIRST_NAME JOB_ID     DEPARTMENT_NAME
------------- ---------- ---------- ----------------
           20 swetha     M_P        marketing
           20 phoebe     M_VP       marketing
```

7. write a SQL query to find the employee whose salary is 3000 and reporting person's ID is 121. Return all fields.

```
SQL> SELECT * FROM employees WHERE salary=70000.00 and manager_id=201;

    EMP_ID FIRST_NAME LAST_NAME  HIRE_DATE     JOB_ID     SALARY
COMMISSION
---------- ---------- ---------- ------------ ---------- ---------- ----
------
MANAGER_ID DEPARTMENT_ID
---------- -------------
       100 swetha     jenifer    10-DEC-2021   M_P        70000      .1
       201            20
```

8. write a SQL query to find those employees whose ID matches any of the numbers 134, 159 and 183. Return all the fields.

```
SQL> SELECT * FROM employees WHERE emp_id IN (100,103,106);

    EMP_ID FIRST_NAME LAST_NAME  HIRE_DATE     JOB_ID     SALARY
COMMISSION
---------- ---------- ---------- ------------ ---------- ---------- ----
------
MANAGER_ID DEPARTMENT_ID
---------- -------------
       100 swetha     jenifer    10-DEC-2021   M_P        70000      .1
       201            20

       103 racheal    green      10-SEP-2020   A_VP       25000      .16
       200            10

       106 dinesh     kumar      17-MAR-2022   PY_EMP     12000      .16
       204            50
```

9. write a SQL query to find those employees whose salary is in the range of 10000, and 30000 (Begin and end values have included.). Return all the fields.

```
SQL> SELECT * FROM employees WHERE salary BETWEEN 10000 and 30000;

    EMP_ID FIRST_NAME LAST_NAME  HIRE_DATE     JOB_ID     SALARY
COMMISSION
---------- ---------- ---------- ------------ ---------- ---------- ----
------
MANAGER_ID DEPARTMENT_ID
---------- -------------
       102 monica     geller     24-SEP-2021   P_EMP      13000      .2
       202            30
```

```
       103 racheal    green      10-SEP-2020   A_VP       25000      .16
       200            10

       105 ross       geller     18-MAY-2022   S_EMP      10000      .13
       206            70


    EMP_ID FIRST_NAME LAST_NAME  HIRE_DATE     JOB_ID     SALARY
COMMISSION
---------- ---------- ---------- ------------- ---------- ---------- ----
------
MANAGER_ID DEPARTMENT_ID
---------- -------------
       106 dinesh     kumar      17-MAR-2022   PY_EMP     12000      .16
       204            50

       110 newlin     blessy     09-JUN-2021   P_EXE      25000      .1
       202            30

       113 harish     umesh      03-DEC-2021   S_MD       23000      .1
       206            70


6 rows selected.
```

10. write a SQL query to find those employees who get second-highest salary.
Return all the fields of the employees.

```
SQL> SELECT * FROM employees WHERE emp_id IN (SELECT emp_id FROM
employees WHERE salary = (SELECT MAX(salary) FROM employees WHERE salary
< (SELECT MAX(salary) FROM employees)));

    EMP_ID FIRST_NAME LAST_NAME  HIRE_DATE     JOB_ID     SALARY
COMMISSION
---------- ---------- ---------- ------------- ---------- ---------- ----
------
MANAGER_ID DEPARTMENT_ID
---------- -------------
       104 phoebe     buffay     11-FEB-2021   M_VP       60000      .3
       201            20
```

11. write a SQL query to find those employees who earn more than the average
salary and work in the same department as an employee whose first name contains the letter e. Return employee ID, first name and salary.

```
SQL> SELECT emp_id, first_name , salary FROM employees WHERE salary >
(SELECT AVG (salary) FROM employees ) AND department_id IN ( SELECT
department_id FROM employees WHERE first_name LIKE '%e%');

    EMP_ID FIRST_NAME SALARY
---------- ---------- ----------
       104 phoebe     60000
       100 swetha     70000
       101 chandler   45000
       109 rolex      50000
```

12. write a SQL query to find those employees whose salary is lower than that of
employees whose job title is ‘C_MD’. Return employee ID, first name, last name, job ID.

```
SQL> SELECT emp_id,first_name,last_name, job_id FROM employees WHERE
salary < ANY ( SELECT salary FROM employees WHERE job_id = 'C_MD' ) AND
job_id <> 'C_MD';
```

```
    EMP_ID FIRST_NAME LAST_NAME  JOB_ID
---------- ---------- ---------- ----------
       105 ross       geller     S_EMP
       106 dinesh     kumar      PY_EMP
       102 monica     geller     P_EMP
       113 harish     umesh      S_MD
       103 racheal    green      A_VP
       110 newlin     blessy     P_EXE
       108 yoga       eshwari    S_EXE
       111 joshwa     peter      SP_EXE
       112 sam        victor     CNTR

9 rows selected.
```