SWETHA JENIFER S

225229142

LAB-3-SUB QUERIES

```
create table department(department_id number(10),department_name varchar(10),manager_id
number(10),location_id number(10));


insert into department values(10,'admininstration',200,1700);

insert into department values(20,'marketing',201,1700);

insert into department values(30,'purchasing',202,1800);

insert into department values(40,'humanresource',203,1900);

insert into department values(50,'payroll',204,1700);

insert into department values(60,'shipping',205,1900);

insert into department values(70,'sales',206,1700);

insert into department values(80,'contracting',207,1700);


SQL> select * from department;


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.
```

```
create table employee(emp_id number(10),first_name varchar(10),last_name
varchar(10),hire_date varchar(10),job_id varchar(10),salary varchar(10),commission_pct
varchar(10),manager_id number(10),department_id number(10));



insert into employee values(100,'swetha','jenifer','10-DEC-2021','M_P',70000.00,0.10,201,20);
insert into employee values(101,'chandler','bing','11-AUG-2021','HR',45000.00,0.19,203,40);
insert into employee values(102,'monica','geller','24-SEP-2021','P_EMP',13000.00,0.20,202,30);
insert into employee values(103,'racheal','green','10-SEP-2020','A_VP',25000.00,0.16,200,10);
insert into employee values(104,'phoebe','buffay','11-FEB-2021','M_VP',60000.00,0.30,201,20);
insert into employee values(105,'ross','geller','18-MAY-2022','S_EMP',10000.00,0.13,206,70);
insert into employee values(106,'dinesh','kumar','17-MAR-2022','PY_EMP',12000.00,0.16,204,50);
insert into employee values(107,'hari','prasath','09-OCT-2021','C_MD',45000.00,0.18,207,80);
insert into employee values(108,'yoga','eshwari','01-SEP-2021','S_EXE',35000.00,0.10,206,70);
insert into employee values(109,'rolex','suriya','11-NOV-2021','A_EXE',50000.00,0.11,200,10);
insert into employee values(110,'newlin','blessy','09-JUN-2021','P_EXE',25000.00,0.10,202,30);
insert into employee values(111,'joshwa','peter','18-JUL-2020','SP_EXE',36000.00,0.16,205,60);
insert into employee values(112,'sam','victor','09-JAN-2020','CNTR',40000.00,0.14,207,80);
insert into employee values(113,'harish','umesh','03-DEC-2021','S_MD',23000.00,0.10,206,70);

SQL> select * from employee;

   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 employee WHERE salary > (SELECT salary FROM employee WHERE emp_id=102);

FIRST_NAME LAST_NAME

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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 employee WHERE job_id = (SELECT job_id FROM employee 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 employee WHERE salary IN (SELECT MIN(salary) FROM employee

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 employee WHERE salary > (SELECT AVG(salary) FROM employee);

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 employee WHERE manager_id =
(SELECT manager_id FROM employee 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 employee e ,
department 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 employee WHERE salary=70000.00 and manager_id=201;

EMP_ID FIRST_NAME LAST_NAME HIRE_DATE JOB_ID SALARY COMMISSION

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MANAGER_ID DEPARTMENT_ID

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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 employee 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 employee 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 employee WHERE salary = (SELECT MAX(salary) FROM employee WHERE salary < (SELECT MAX(salary) FROM employee)));

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 employee WHERE salary > (SELECT AVG (salary) FROM employee) AND department_id IN (SELECT department_id FROM employee 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 employee WHERE salary < ANY (SELECT salary FROM employee 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.