DINESH KUMAR K

225229108

SUB QUERIES

SQL> select * from dept;

DEPARTMENT_ID DEPARTMENT_NAME MANAGER_ID LOCATION_ID

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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

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MANAGER_ID DEPARTMENT_ID

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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

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MANAGER_ID DEPARTMENT_ID

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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

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MANAGER_ID DEPARTMENT_ID

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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

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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 employees WHERE job_id = (SELECT job_id FROM employees WHERE emp_id=103);

FIRST_NAME LAST_NAME SALARY DEPARTMENT_ID JOB_ID

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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

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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

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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

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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 employees WHERE emp_id IN (100,103,106);

EMP_ID FIRST_NAME LAST_NAME HIRE_DATE JOB_ID SALARY COMMISSION

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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

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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

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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

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MANAGER_ID DEPARTMENT_ID

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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

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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.
```