

HARI PRASATH S

225229110

SUB QUERIES

SQL> select * from dept;

DEPARTMENT_ID DEPARTMENT_NAME MANAGER_ID LOCATION_ID

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      10      administratin      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

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
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-----
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.