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Batch D1

19BCE245

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Practical 8

Do as directed.

1. Write a query to determine who earns more than Mr. Lex.

- SQL> SELECT first_name, salary FROM employees out WHERE salary>(SELECT salary FROM employees WHERE first_name='Lex');
FIRST_NAME SALARY

Steven 24000

2. Write a query find the job with the highest average salary.

- SQL> ed
Wrote file afiedt.buf
1 SELECT job_id, AVG(salary)
2 FROM employees
3 GROUP BY job_id
4 * HAVING AVG(salary) = (SELECT MAX(AVG(salary)) FROM
employees GROUP BY job_id) SQL> /
JOB_ID AVG(SALARY)

PRESIDENT 24000

3. Write a query to print employee id along with their manager id.

SQL> SELECT employee_id,manager_id FROM employees;

EMPLOYEE_ID MANAGER_ID

100 103

```

101 100
102 100
103 102
104 103
105 103
106 103
114 100
119 114
206 205

```

4. Write a query to print employees name who earns more than that of their managers.

- SQL> ed
Wrote file afiedt.buf
1 * SELECT first_name, salary FROM employees out WHERE
salary>(SELECT salary FROM employees WHERE
out.manager_id=employee_id)
SQL> /
FIRST_NAME SALARY

Steven 24000

5. Write a query to print the name of employee who earns more than that of their department's average.

- SQL> ed
Wrote file afiedt.buf
1 * SELECT first_name, salary FROM employees out WHERE
salary>(SELECT AVG(salary) FROM employees WHERE
out.department_id=department_id)
SQL> /
FIRST_NAME SALARY

Steven 24000

```
Alexander 9000
Den        11000
```

6. Write a query to print the name and id of those department whose total no employee is greater than at least one of the departments.

```
SQL> ed
```

```
Wrote file afiedt.buf
```

```
1 * SELECT dname, department_id, count(*) FROM employees e INNER
JOIN department ON dept_no = department_id GROUP BY dname,
department_id HAVING count(*) > (SELECT MIN(count(*)) FROM
employees GROUP BY department_id)
```

```
SQL> /
```

```
DNAME DEPARTMENT_ID COUNT(*)
```

```
-----
```

```
RESEARCH 60 4
```

```
ACCOUNTING 30 2
```

```
SALES 90 4
```

7. Write a query to print the name of employee who draw second lowest salary in the company.

```
SQL> ed
```

```
Wrote file afiedt.buf
```

```
1 SELECT first_name, salary
```

```
2 FROM employees
```

```
3 * WHERE salary = (SELECT MIN(salary) FROM employees WHERE
```

```
salary > (SELECT MIN(salary) FROM employees) ) SQL> /
```

```
FIRST_NAME SALARY
```

```
-----
```

```
David 4800
```

8. Write a query to print the name of employee who draw second lowest salary in their respective departments. What should be the output of the following query:

- SQL> SELECT t0.* FROM employees t0 JOIN (SELECT MAX(t1.salary) AS max, t1.department_id FROM employees t1 WHERE

```

2 t1.salary<(SELECT MAX(salary) FROM employees t2 WHERE
t1.department_id=t2.department_id)GROUP BY
3 t1.department_id) t3 ON t0.department_id=t3.department_id AND
t0.salary=t3.max;

```

EMPLOYEE_ID	FIRST_NAME	LAST_NAME	EMAIL	PHONE_NUMBER	HIRE_DATE	JOB_ID	SALARY	COMMISSION_PCT	MANAGER_ID	DEPARTMENT_ID
101	Neena	Kochhar	NKOCHHAR	515.123.4568	18-JUN-12	VICE PRESIDENT	17000	0	100	90
102	Lex	De Haan	LDEHAAN	123.515.4569	19-JUN-17	VICE PRESIDENT	17000	100	90	
104	Bruce	Ernst	BERNST	590.423.4568	20-MAY-14	FINANCIAL MANAGER	6000	0	103	60
119	Karen	Colmenares	KCOLMENA	515.127.4566	06-JUL-87	CLERK	2500	114	30	

9. select employee_id from employees where salary < all (select salary from employees where department_id=30);

- select employee_id from employees where salary < all (select salary from employees where department_id=30);

OUTPUT:

no rows selected

→Trying with a different employee ID so that output can be known SQL>

select employee_id from employees where salary < all (select salary from employees where department_id=90);

EMPLOYEE_ID

```

-----
114
103
206
104

```

105

106

119

10. **select employee_id from employees where salary < (select min(salary) from employees where department_id=60);**

- **select employee_id from employees where salary < (select min(salary) from employees where department_id=60);**

OUTPUT:

EMPLOYEE_ID -----
119

11. **select last_name from employees where department_id in(select department_id from departments where department_name='Sales');**

- **SQL> SELECT last_name FROM employees WHERE department_id IN(SELECT dept_no FROM department WHERE dname='SALES');**
LAST_NAME

De

Haan

Kochhar

King