

18BCB0142

David B.A.De Vieira Velho

Ex 5

1.

```
SQL> SELECT FIRST_NAME, LAST_NAME from emp where SALARY = (SELECT MAX(SALARY) FROM emp WHERE DEPARTMENT_NUMBER = (SELECT DEPARTMENT_NUMBER FROM dept WHERE DEPARTMENT_NAME='Headquarters'));
no rows selected
SQL> |
```

2.

```
SQL> SELECT FIRST_NAME, LAST_NAME , DEPARTMENT_NUMBER from emp A where SALARY = (SELECT MIN(SALARY) FROM emp where DEPARTMENT_NUMBER = A.DEPARTMENT_NUMBER);
FIRST_NAME      LAST_NAME      DEPARTMENT_NUMBER
-----
Doug            Gilbert         1
Joyce           PAN            5
Frankin         Wong           2
John            Smith          124
Ramesh          Narayan        3
SQL> |
```

3.

```
SQL> SELECT FIRST_NAME, LAST_NAME, SALARY FROM emp WHERE SALARY > (SELECT AVG(SALARY) FROM emp WHERE DEPARTMENT_NUMBER=2);
FIRST_NAME      LAST_NAME      SALARY
-----
Doug            Gilbert         80000
Joyce           PAN            70000
Jenifer         Wallace        43000
SQL> |
```

4.

```
SQL> SELECT DEPARTMENT_NAME, COUNT(dept.DEPARTMENT_NAME) from emp INNER JOIN dept on emp.DEPARTMENT_NUMBER = dept.DEPARTMENT_NUMBER GROUP BY DEPARTMENT_NAME;
DEPARTMENT_NAME  COUNT(DEPT.DEPARTMENT_NAME)
-----
Headquarter      1
Administration   2
Finance          1
SQL> |
```

5.

```
SQL> SELECT DEPARTMENT_NAME FROM dept WHERE DEPARTMENT_NUMBER = (SELECT DEPARTMENT_NUMBER FROM emp GROUP BY DEPARTMENT_NUMBER HAVING COUNT(DEPARTMENT_NUMBER) = (SELECT MAX(COUNT(FIRST_NAME)) FROM emp GROUP BY DEPARTMENT_NUMBER));
DEPARTMENT_NAME
-----
Administration
SQL> |
```

6.

```
SQL> SELECT dept.DEPARTMENT_NAME, AVG(emp.SALARY) from emp INNER JOIN dept on emp.DEPARTMENT_NUMBER = dept.DEPARTMENT_NUMBER GROUP BY dept.DEPARTMENT_NAME;

DEPARTMENT_NAME  AVG(EMP.SALARY)
-----
Headquarter      80000
Administration   41500
Finance          38000
```

7.

```
SQL> SELECT dept.DEPARTMENT_NAME, AVG(emp.SALARY) from emp INNER JOIN dept on emp.DEPARTMENT_NUMBER = dept.DEPARTMENT_NUMBER GROUP BY dept.DEPARTMENT_NAME;

DEPARTMENT_NAME  AVG(EMP.SALARY)
-----
Headquarter      80000
Administration   41500
Finance          38000
SQL> |
```

8.

```
SQL> CREATE VIEW EMPLOYEE_ADMIN AS SELECT * FROM emp WHERE DEPARTMENT_NUMBER = (SELECT DEPARTMENT_NUMBER from dept where DEPARTMENT_NAME = 'Administration');
View created.

SQL> desc EMPLOYEE_ADMIN;
Name                               Null?    Type
-----
FIRST_NAME                        NOT NULL VARCHAR2(15)
MID_NAME                          CHAR(2)
LAST_NAME                         NOT NULL VARCHAR2(15)
SSN_NUMBER                       NOT NULL CHAR(9)
BIRTHDAY                         DATE
ADDRESS                          VARCHAR2(15)
SEX                              CHAR(1)
SALARY                           NUMBER(7)
SUPERVISOR_SSN                   CHAR(9)
DEPARTMENT_NUMBER                NUMBER(5)
SQL> |
```

9.

```
SQL> CREATE TABLE EMP10K AS SELECT * FROM emp WHERE SALARY > 10000;
Table created.

SQL> SELECT FIRST_NAME, SALARY FROM EMP10K;

FIRST_NAME          SALARY
-----
Doug                80000
Joyce               70000
Frankin             40000
Jenifer             43000
John                30000
Ramesh              38000

6 rows selected.

SQL> |
```

EX6

1.

```
SQL>
SQL> SELECT FIRST_NAME, LAST_NAME from emp where SUPERVISOR_SSN = (SELECT SSN_NUMBER FROM emp WHERE FIRST_NAME = 'Joyce');

FIRST_NAME      LAST_NAME
-----
Ramesh          Narayan

SQL> |
```

2.

```
SQL> SELECT FIRST_NAME, LAST_NAME from emp WHERE DEPARTMENT_NUMBER = (SELECT DEPARTMENT_NUMBER FROM dept WHERE DEPARTMENT_NAME = 'Headquarter');

FIRST_NAME      LAST_NAME
-----
Doug            Gilbert

SQL> |
```

3.

```
SQL> SELECT emp.FIRST_NAME, emp.LAST_NAME , dept.DEPARTMENT_NAME from emp INNER JOIN dept on emp.SSN_NUMBER = dept.MANAGER_SSN;

FIRST_NAME      LAST_NAME      DEPARTMENT_NAME
-----
Doug            Gilbert        IT
Ramesh          Narayan        Finance
Jenifer         Wallace        Administration
John            Smith          Headquarter

SQL> |
```

4.

```
SQL>
SQL> SELECT DEPARTMENT_NAME from dept where DEPARTMENT_NUMBER = (SELECT DEPARTMENT_NUMBER from emp GROUP BY DEPARTMENT_NUMBER HAVING COUNT(*) > 2);

no rows selected

SQL> |
```