# DBS301

## ASSIGNMENT 1

**1. Display employee name, hire date as "Hire Date-Time" in a format given below, number of months employed (rounded to 2 decimal places and with an alias "# of Months" ), job and salary as "Pay" in a format given below, but only for people whose job title starts on S or on M. Exclude people hired in September and October of any year.**

**Here is one of the rows with its heading sample:**

| LName | Hire Date-Time | # of Months | Job | Pay |
|---|---|---|---|---|
| JONES | 02nd April 1981 00:00 | 366.08 | MANAGER | $02,975.0 |

```
  1  SELECT ename "LName", to_char(hiredate,'ddth Month yyyy hh24:mi') "Hire Date-Time",
  2  ROUND(MONTHS_BETWEEN(sysdate,hiredate),2)"# of months", job "Job", to_char(sal,'$09,999.9') "Pay"
  3  FROM emp
  4  WHERE (UPPER(job) LIKE 'M%' OR UPPER(job) LIKE 'S%')
  5* AND to_char(hiredate,'Mon') NOT IN ('Sep','Oct')
SQL> /

LName      Hire Date-Time                                      # of months Job       Pay
---------- -------------------------------------------------- ---------- --------- ----------
BLAKE      01st May       1981 00:00                               429.7 MANAGER    $02,850.0
CLARK      09th June      1981 00:00                              428.44 MANAGER    $02,450.0
JONES      02nd April     1981 00:00                              430.67 MANAGER    $02,975.0
ALLEN      20th February  1981 00:00                              432.09 SALESMAN   $01,600.0
WARD       22nd February  1981 00:00                                 432 SALESMAN   $01,250.0
```

**2. Select name, job title, salary and manager Id for all employees that meet all of the following conditions:**

1) **Job title is Salesman or Clerk**
2) **Salary is in the range of 950 to 1500**
3) **Manager is not Clark**

**Sort the output by manager Id firstly and then by name.**

**Use a SUBQUERY here.**

**<u>Here is the heading sample:</u>**

| EMPLOYEE | JOB TITLE | SALARY | MANAGER ID |
|---|---|---|---|

```
  1  SELECT e.ename "EMPLOYEE", e.job "JOB TITLE", e.sal "SALARY", e.mgr "MANAGER ID"
  2  FROM emp e
  3  WHERE e.mgr <>
  4  (
  5     SELECT empno FROM emp WHERE UPPER(ENAME) = 'CLARK'
  6  )
  7  AND e.sal BETWEEN 950 AND 1500
  8  AND UPPER(e.job) IN ('SALESMAN','CLERK')
  9* ORDER BY 4,1
SQL> /

EMPLOYEE   JOB TITLE     SALARY MANAGER ID
---------- --------- ---------- ----------
JAMES      CLERK            950       7698
MARTIN     SALESMAN        1250       7698
TURNER     SALESMAN        1500       7698
WARD       SALESMAN        1250       7698
ADAMS      CLERK           1100       7788
```

**3. Display employee name ("Employee Name"), manager name ("Manager Name"), manager salary ("Manager Salary") for all employees that have a manager making in the range of 3000 to 5000. Choose only employees that do not have an A in their names.**

```
  1  SELECT e.ename "Employee Name", m.ename "Manager Name", m.sal "Manager Salary"
  2  FROM emp e JOIN emp m ON (e.mgr = m.empno)
  3  WHERE m.sal BETWEEN 3000 AND 5000
  4* AND INSTR(LOWER(E.ENAME),'a') = 0
SQL> /

Employee N Manager Na Manager Salary
---------- ---------- --------------
JONES      KING                5000
SMITH      FORD                3000
```

**4. Display all customer IDs, customer names, and sales rep names with appropriate aliases, but only if the rep's name does not have R as the last or before the last character. List all customers, even if they do not have a sales rep. Sort by the customer names ascending.**

**Here is the heading sample:**

**Customer ID  Customer Name  Sales Rep**

```
  1  SELECT c.custid "Customer ID", c.name "Customer Name", e.ename "Sales Rep"
  2  FROM customer c LEFT OUTER JOIN emp e ON (c.repid = e.empno)
  3  WHERE
  4  SUBSTR(UPPER(e.ename),-1,1) <> 'R'
  5  AND
  6  SUBSTR(UPPER(e.ename),-2,1) <> 'R'
  7  OR
  8  c.repid IS NULL
  9* ORDER BY 2
SQL> /

Customer ID Customer Name                                  Sales Rep
----------- ---------------------------------------------- ----------
        104 EVERY MOUNTAIN                                 ALLEN
        201 SPORT PLANET
        102 VOLLYRITE                                      MARTIN
        107 WOMENS SPORTS                                  ALLEN
```

**5. Display the department number, department name, the total salary and minimum salary for each department, and how many people work in the department.. Exclude any group where the total salary is less than $10,000. Supply all column aliases. Sort by top total salaries first.**

**Here is the heading sample:**

**Dept # Dept Name Total Salary Min Salary # of Employees**

```
  1  SELECT d.deptno "Dept #", d.dname "Dept Name", SUM(e.sal) "Total Salary", MIN(e.sal) "Min Salary", COUNT(*) "# of Employees"
  2  FROM dept d, emp e
  3  WHERE d.deptno = e.deptno
  4  GROUP BY d.deptno, d.dname
  5  HAVING SUM(e.sal) > 10000
  6* ORDER BY 3 DESC
SQL> /

   Dept # Dept Name     Total Salary Min Salary # of Employees
--------- ------------ ------------ ---------- -------------
       30 SALES              11200        950             7
       20 RESEARCH           10875        800             5
```

**6. Display customer Name, customer city, the total money amount of that customer's orders, total number of orders, and the sales rep name for all customers who have more than three orders. Sort with the highest total money amount of orders first.**

**Here is one of the rows with its heading sample:**

**Customer Name CITY Total Amt Total Orders Rep Name**

---

**EVERY MOUNTAIN CUPERTINO $7,211.0 4 ALLEN**

```
  1  SELECT c.name "Customer Name", c.city, TO_CHAR(SUM(o.total), '$99,999.9') "Total Amt", count(*) "Total Orde
rs", e.ename "Rep Name"
  2  FROM customer c, emp e, ord o
  3  WHERE c.repid = e.empno
  4  AND o.custid = c.custid
  5  GROUP BY c.custid, c.name, c.city, e.ename
  6  HAVING count(*) > 3
  7* ORDER BY 3 DESC
SQL> /

Customer Name                            CITY                         Total Amt  Total Orders Rep Name
---------------------------------------- ---------------------------- ---------- ------------ ----------
VOLLYRITE                                BURLINGAME                    $27,775.0            5 MARTIN
EVERY MOUNTAIN                           CUPERTINO                      $7,211.0            4 ALLEN
JOCKSPORTS                               BELMONT                        $5,312.0            4 TURNER
```

**7. Show employee name, job and salary if they earn more than the amount equal to the lowest salary of all average department salaries and if they do not perform the same job as Turner or Scott. Sort by job and then by top salaries. Use a SUBQUERY here.**

```
  1  SELECT ename "Employee Name", job "Job",sal "Salary"
  2  FROM emp
  3  WHERE sal >
  4  (
  5     SELECT MIN(AVG(sal)) FROM emp GROUP BY deptno
  6  )
  7  AND job NOT IN
  8  (
  9     SELECT DISTINCT job FROM emp WHERE UPPER(ename) IN ('TURNER','SCOTT')
 10  )
 11* ORDER BY job,sal DESC
SQL> /

Employee N Job           Salary
---------- --------- ----------
JONES      MANAGER         2975
BLAKE      MANAGER         2850
CLARK      MANAGER         2450
KING       PRESIDENT       5000
```

**8. Display department name and name of all employees plus their manager status. Status should show message 'is a Manager' for those who are managers. For those who are not managers should show message 'is NOT a Manager'. Include also empty departments as well, where the status value should be 'NO Manager yet'. Display those people who are managers first and empty departments last. Then sort by the employee name alphabetically.**

**Here is the heading sample:**

**Department Name Employee Manager Status**

```
  1  SELECT d.dname "Department Name", e.ename "Employee",
  2  DECODE(UPPER(e.job), 'MANAGER', 'is a Manger',
  3                  NULL, 'No Manager Yet',
  4                  'is NOT a Manager') "Manager Status"
  5  FROM emp e RIGHT OUTER JOIN dept d ON (e.deptno = d.deptno)
  6* ORDER BY 3 DESC, 2 ASC
SQL> /

Department Nam Employee   Manager Status
-------------- ---------- ----------------
SALES          BLAKE      is a Manger
ACCOUNTING     CLARK      is a Manger
RESEARCH       JONES      is a Manger
RESEARCH       ADAMS      is NOT a Manager
SALES          ALLEN      is NOT a Manager
RESEARCH       FORD       is NOT a Manager
SALES          HOLMES     is NOT a Manager
SALES          JAMES      is NOT a Manager
ACCOUNTING     KING       is NOT a Manager
SALES          MARTIN     is NOT a Manager
ACCOUNTING     MILLER     is NOT a Manager
RESEARCH       SCOTT      is NOT a Manager
RESEARCH       SMITH      is NOT a Manager
SALES          TURNER     is NOT a Manager
SALES          WARD       is NOT a Manager
OPERATIONS                No Manager Yet

16 rows selected.
```