**Join assignment**

Assignment #3

1] Write a SQL Statement to Display the lowest paid Employee's (Name , Salary , Department Name)

**SELECT \* FROM EMP**

**WHERE SAL = (SELECT MIN(SAL) FROM EMP)**

EMPNO,ENAME,JOB,MGR,HIREDATE,SAL,COMM,DEPTNO

7369,'SMITH','CLERK',7902,1980-12-17 00:00:00.0,800.00,,20

2. Write a SQL Statement to Display the lowest paid Employee's (Name , Salary , Department Name) in the respective department.

**SELECT ENAME, SAL, DEPTNO FROM EMP**

**WHERE SAL IN (SELECT MIN(SAL) FROM EMP GROUP BY DEPTNO )**

**ORDER BY DEPTNO**

Employee Min Sal Department Name

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MILLER 1300 ACCOUNTING

SMITH 800 RESEARCH

JAMES 950 SALES

3 list all the employees who are working in Ford’s department.

**SELECT \* FROM EMP**

**WHERE DEPTNO = (SELECT DEPTNO FROM EMP WHERE ENAME='FORD')**

EMPNO ENAME JOB MGR HIREDATE SAL COMM DEPTNO

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7369 SMITH CLERK 7902 17-DEC-80 800 20

7566 JONES MANAGER 7839 02-APR-81 2975 20

7788 SCOTT ANALYST 7566 09-DEC-82 3000 20

7876 ADAMS CLERK 7788 12-JAN-83 1100 20

7902 FORD ANALYST 7566 03-DEC-81 3000 20

4 LIST ALL EMPLOYEE WHO ARE WORKING IN WARD'S DEPARTMENT AND

EARNING MORE THEN MARTIN

**SELECT \* FROM EMP**

**WHERE DEPTNO = (SELECT DEPTNO FROM EMP WHERE ENAME='WARD')AND**

**SAL > (SELECT SAL FROM EMP WHERE ENAME='MARTIN')**

5 Display all the employees information who are earning more than the average salary of the organization

**SELECT \* FROM EMP**

**WHERE SAL > (SELECT AVG(SAL) FROM EMP)**

6 Display all the employees information who are earning more than the average salary of their respective department

SELECT DEPTNO, AVG(SAL) FROM EMP GROUP BY DEPTNO ORDER BY DEPTNO

GO

**SELECT \* FROM EMP OUTER**

**WHERE SAL > (SELECT AVG(SAL) FROM EMP INNER**

**WHERE OUTER.DEPTNO = INNER.DEPTNO)**

**ORDER BY DEPTNO**

**GO**

**OR**

**SELECT ENAME,DEPTNO,SAL,AVG(SAL) FROM EMP**

**GROUP BY DEPTNO**

**HAVING SAL > AVG(SAL)**

7. Write a SQL statement to Display the highest paid employee's of each department with following columns (Name, job

Manager name, Salary and Department name and department no.)

**SELECT E.ENAME, E.JOB, M.ENAME "MANAGER", E.SAL "MAX SAL",**

**E.DEPTNO FROM EMP E, EMP M**

**WHERE E.MGR = M.EMPNO AND**

**E.SAL IN (SELECT MAX(SAL) FROM EMP GROUP BY DEPTNO )**

**ORDER BY DEPTNO**

EMPLOYEE JOB MANAGER MAX\_SAL DEPT\_NM DEPTNO

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FORD ANALYST JONES 3000 RESEARCH 20

SCOTT ANALYST JONES 3000 RESEARCH 20

BLAKE MANAGER KING 2850 SALES 30

8 Display manager name and their subordinate’s name

**SELECT M.ENAME "MANAGER", E.ENAME "EMPLOYEE" FROM EMP E, EMP M**

**WHERE M.EMPNO = E.MGR**

MANAGER,EMPLOYEE

'JONES','FORD'

'JONES','SCOTT'

'BLAKE','WARD'

'BLAKE','ALLEN'

'BLAKE','JAMES'

'BLAKE','MARTIN'

'BLAKE','TURNER'

'CLARK','MILLER'

'SCOTT','ADAMS'

'KING','BLAKE'

'KING','CLARK'

'KING','JONES'

'FORD','SMITH'

9] Display all the department name and the name of the employee working in that department. Also include the department which does not have any employee.

**SELECT ENAME, DNAME FROM EMP E RIGHT OUTER JOIN DEPT D**

**ON E.DEPTNO = D.DEPTNO**

ENAME,DNAME

'KING','ACCOUNTING'

'CLARK','ACCOUNTING'

'MILLER','ACCOUNTING'

'FORD','RESEARCH'

'ADAMS','RESEARCH'

'JONES','RESEARCH'

'SCOTT','RESEARCH'

'SMITH','RESEARCH'

'WARD','SALES'

'ALLEN','SALES'

'BLAKE','SALES'

'JAMES','SALES'

'MARTIN','SALES'

'TURNER','SALES'

,'OPERATIONS'

10 Display the names, designation and salaries of all employees who have manager along with manager's name, designation and manager's salary.

(Self join)

**SELECT E.ENAME "EMP NAMES", E.JOB, E.SAL, M.ENAME, M.SAL**

**FROM EMP E JOIN EMP M**

**ON E.MGR = M.EMPNO**

EMPNO,ENAME,JOB,MGR,HIREDATE,SAL,COMM,DEPTNO

7499,'ALLEN','SALESMAN',7698,1981-02-20 00:00:00.0,1600.00,300.00,30

7698,'BLAKE','MANAGER',7839,1981-05-01 00:00:00.0,2850.00,,30

7844,'TURNER','SALESMAN',7698,1981-09-08 00:00:00.0,1500.00,0.00,30

11 Display all the employees whose manager is JONES.

**SELECT \* FROM EMP**

**WHERE MGR = (SELECT EMPNO FROM EMP WHERE ENAME='JONES')**

1. Print ProductName, CategoryName and price for each product.  
     
   SELECT PRODUCTNAME, PRICE, CATEGORYNAME

FROM PRODUCT JOIN CATEGORY

ON PRODUCT.CATEGORYID = CATEGORY.CATEGORYID

PRODUCTNAME,PRICE,CATEGORYNAME

'TEA',60.00,'FOOD'

'COFFEE',80.00,'FOOD'

'TV',15000.00,'ELECTRONICS'

'WASING MACHINE',12000.00,'ELECTRONICS'

'PEN',80.00,'STATIONARY'

'NOTE BOOK',125.00,'STATIONARY'

1. Print Orderyear, ordermonth, orderId, productname, orderqty

SELECT ORDERYEAR, ORDERMONTH, ORDERID, PRODUCTNAME

FROM ORDERS JOIN PRODUCT

ON ORDERS.PRODUCTID = PRODUCT.PRODUCTID

ORDERYEAR,ORDERMONTH,ORDERID,PRODUCTNAME

2010,1,1,'TEA'

2011,1,1,'TEA'

2010,2,1,'TEA'

2010,1,2,'TEA'

2010,2,2,'TEA'

2010,2,3,'TEA'

1. Print all the customer name whether they have placed any order or not  
     
     
   SELECT ORDERYEAR, ORDERMONTH, ORDERID, CUSTOMERNAME

FROM ORDERS RIGHT OUTER JOIN CUSTOMER

ON ORDERS.CUSTOMERID = CUSTOMER.CUSTOMERID

ORDERYEAR,ORDERMONTH,ORDERID,CUSTOMERNAME

2010,1,2,'AJAY'

2010,2,2,'AJAY'

2011,1,1,'AJAY'

2010,1,1,'CHIRAG'

2010,2,3,'CHIRAG'

2010,2,1,'AMIT'  
  
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1. Print all the categoryname whether any products available for that category or not

SELECT CATEGORYNAME, PRODUCTNAME

FROM CATEGORY C LEFT OUTER JOIN PRODUCT P

ON C.CATEGORYID = P.CATEGORYID

CATEGORYNAME,PRODUCTNAME

'FOOD','TEA'

'FOOD','COFFEE'

'ELECTRONICS','TV'

'ELECTRONICS','WASING MACHINE'

'STATIONARY','PEN'

'STATIONARY','NOTE BOOK'