1. WRITE A SQL STATEMENT TO DISPLAY THE LOWEST PAID EMPLOYEE'S (NAME , SALARY , DEPARTMENT NAME)

|  |  |  |
| --- | --- | --- |
| **ENAME** | **SAL** | **DNAME** |
| **SMITH** | 800 | RESEARCH |

select ename,sal,dname

from emp e join dept d on

e.deptno=d.deptno

where sal=(select min(sal)

from emp)

1. LIST MINIMUM SALARY FOR EACH DEPARTMENT

|  |  |
| --- | --- |
| **DEPTNO** | **MIN(SAL)** |
| **10** | 1300 |
| **20** | 800 |
| **30** | 950 |

select deptno,min(sal) from emp group by deptno order by deptno

1. WRITE A QUERY BASED ON FOLLOWING RESULT.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **EMPNO** | **ENAME** | **JOB** | **SAL** | **DEPTNO** | **DNAME** |
| **7369** | SMITH | CLERK | 800 | 20 | RESEARCH |
| **7900** | JAMES | CLERK | 950 | 30 | SALES |
| **7934** | MILLER | CLERK | 1300 | 10 | ACCOUNTING |

select unique e.empno,e.ename,e.job,e.sal,d.deptno,d.dname

from emp e join dept d on

e.deptno=d.deptno

WHERE job='CLERK'

1. LIST ALL THE EMPLOYEES WHO ARE WORKING IN FORD’S DEPARTMENT.

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **EMPNO** | **ENAME** | **JOB** | **MGR** | **HIREDATE** | **SAL** | **DEPTNO** |
| **7369** | SMITH | CLERK | 7902 | 17-Dec-00 | 800 | 20 |
| **7566** | JONES | MANAGER | 7839 | 02-Apr-01 | 2975 | 20 |
| **7788** | SCOTT | ANALYST | 7566 | 19-Apr-07 | 3000 | 20 |
| **7876** | ADAMS | CLERK | 7788 | 23-May-07 | 1100 | 20 |
| **7902** | FORD | ANALYST | 7566 | 03-Dec-01 | 3000 | 20 |

SELECT E.EMPNO,E.ENAME,E.JOB,E.SAL,D.DEPTNO,D.DNAME

FROM EMP E JOIN DEPT D

ON E.DEPTNO=D.DEPTNO

WHERE D.DEPTNO=(SELECT DEPTNO

FROM EMP WHERE ENAME='FORD')

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

EARNING MORE THEN MARTIN

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **EMPNO** | **ENAME** | **JOB** | **MGR** | **HIREDATE** | **SAL** | **DEPTNO** |
| **7369** | SMITH | CLERK | 7902 | 17-Dec-00 | 800 | 20 |
| **7566** | JONES | MANAGER | 7839 | 02-Apr-01 | 2975 | 20 |
| **7788** | SCOTT | ANALYST | 7566 | 19-Apr-07 | 3000 | 20 |

SELECT EMPNO,ENAME,JOB,SAL,DEPTNO

FROM EMP

WHERE DEPTNO=(SELECT DEPTNO

FROM EMP WHERE ENAME='WARD') AND SAL>(SELECT SAL FROM EMP WHERE ENAME='MARTIN');

1. DISPLAY EMPLOYEE NUMBER, NAME,DEPT NUMBER, DEPT NAME, AND LOCATION

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **EMPNO** | **ENAME** | **DEPTNO** | **DNAME** | **LOC** |
| **7369** | SMITH | 20 | RESEARCH | DALLAS |
| **7499** | ALLEN | 30 | SALES | CHICAGO |
| **7521** | WARD | 30 | SALES | CHICAGO |
| **7566** | JONES | 20 | RESEARCH | DALLAS |
| **7654** | MARTIN | 30 | SALES | CHICAGO |
| **7698** | BLAKE | 30 | SALES | CHICAGO |
| **7782** | CLARK | 10 | ACCOUNTING | NEW YORK |
| **7788** | SCOTT | 20 | RESEARCH | DALLAS |
| **7839** | KING | 10 | ACCOUNTING | NEW YORK |
| **7844** | TURNER | 30 | SALES | CHICAGO |
| **7876** | ADAMS | 20 | RESEARCH | DALLAS |
| **7900** | JAMES | 30 | SALES | CHICAGO |
| **7902** | FORD | 20 | RESEARCH | DALLAS |
| **7934** | MILLER | 10 | ACCOUNTING | NEW YORK |

SELECT E.EMPNO,E.ENAME,E.DEPTNO,D.DNAME,D.LOC

FROM EMP E JOIN DEPT D ON

E.DEPTNO=D.DEPTNO;

DEP

1. DISPLAY THE FOLLOWING RESULT

|  |  |  |
| --- | --- | --- |
| **DEPTNO** | **DNAME** | **ENAME** |
| **10** | ACCOUNTING | CLARK |
| **10** | ACCOUNTING | KING |
| **10** | ACCOUNTING | MILLER |
| **20** | RESEARCH | JONES |
| **20** | RESEARCH | FORD |
| **20** | RESEARCH | ADAMS |
| **20** | RESEARCH | SMITH |
| **20** | RESEARCH | SCOTT |
| **30** | SALES | WARD |
| **30** | SALES | TURNER |
| **30** | SALES | ALLEN |
| **30** | SALES | JAMES |
| **30** | SALES | BLAKE |
| **30** | SALES | MARTIN |

SELECT D.DEPTNO,D.DNAME,E.ENAME

FROM EMP E JOIN DEPT D

ON E.DEPTNO=D.DEPTNO

ORDER BY DEPTNO

1. LIST ALL THE EMPLOYEE WHO ARE WORKING IN NEW YORK

|  |  |  |  |
| --- | --- | --- | --- |
| **ENAME** | **DEPTNO** | **DNAME** | **LOC** |
| **CLARK** | 10 | ACCOUNTING | NEW YORK |
| **KING** | 10 | ACCOUNTING | NEW YORK |
| **MILLER** | 10 | ACCOUNTING | NEW YORK |

SELECT E.EMPNO,E.ENAME,E.DEPTNO,D.DNAME,D.LOC

FROM EMP E JOIN DEPT D ON

E.DEPTNO=D.DEPTNO

where D.loc='NEW YORK'

1. WRITE A SQL STATEMENT TO DISPLAY THE LOWEST PAID EMPLOYEE'S (NAME , SALARY , DEPARTMENT NAME) IN THE RESPECTIVE DEPARTMENT.

|  |  |  |
| --- | --- | --- |
| **ENAME** | **MIN(SAL)** | **DNAME** |
| **SMITH** | 800 | RESEARCH |
| **JAMES** | 950 | SALES |
| **MILLER** | 1300 | ACCOUNTING |

SELECT E.EMPNO,E.ENAME,E.SAL,E.DEPTNO,D.DNAME,D.LOC

FROM EMP E JOIN DEPT D ON

E.DEPTNO=D.DEPTNO

where E.SAL IN (SELECT MIN(SAL) FROM EMP GROUP BY DEPTNO)

ORDER BY SAL;

1. WRITE A SQL STATEMENT TO DISPLAY THE HIGHEST PAID EMPLOYEE'S (NAME, JOB, MANAGER NAME, SALARY AND DEPARTMENT NAME AND DEPARTMENT NO.) IN THE RESPECTIVE DEPARTMENT.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **EMPNO** | **JOB** | **MGR** | **MAX(SAL)** | **DNAME** |
| **7698** | MANAGER | 7839 | 2850 | SALES |
| **7788** | ANALYST | 7566 | 3000 | RESEARCH |
| **7839** | PRESIDENT |  | 5000 | ACCOUNTING |
| **7902** | ANALYST | 7566 | 3000 | RESEARCH |

SELECT E.EMPNO,E.ENAME,E.SAL,E.DEPTNO,D.DNAME,D.LOC

FROM EMP E JOIN DEPT D ON

E.DEPTNO=D.DEPTNO

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

ORDER BY SAL;

1. WRITE A SQL STATEMENT TO DISPLAY THE EMPLOYEE NAME (BOSS) AND NUMBER OF EMPLOYEE (SUBORDINATES) DIRECTLY REPORTING TO HIM?

|  |  |
| --- | --- |
| **BOSS** | **SUBORDINATES** |
| **JONES** | 2 |
| **FORD** | 1 |
| **CLARK** | 1 |
| **SCOTT** | 1 |
| **BLAKE** | 5 |
| **KING** | 3 |

SELECT M.ENAME,COUNT(E.MGR)

FROM EMP E JOIN EMP M

ON E.MGR=M.EMPNO

GROUP BY M.ENAME

1. 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 M.ENAME,M.JOB,M.SAL,E.ENAME,E.JOB,E.SAL

FROM EMP E JOIN EMP M

ON E.MGR=M.EMPNO

1. Create the following tables:

ORDER: {Id, OrderDate, OrderNumber}

ORDER\_ITEM: {Id, OrderId, ProductId, UnitPrice, Quantity}

PRODUCT: {Id, ProductName}

Write a query to display the following output sorted by order no:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **ORDER\_NO** | **ORDER\_DATE** | **PRODUCT\_NAME** | **QUANTITY** | **UNIT\_PRICE** |
| **7369** | 7/4/2012 12:00:00 AM | EASY-TRADING | 800 | 20 |
| **7900** | 2/10/2011 12:00:00 AM | BANK-ANYWHERE | 950 | 30 |
| **7934** | 9/23/2015 12:00:00 AM | TRIP-MANAGER | 1300 | 10 |

CREATE TABLE ORDERS

(ID NUMERIC(3) PRIMARY KEY,

ORDERDATE VARCHAR(13),

ORDERNUMBER VARCHAR(10)

);

CREATE TABLE ORDER\_ITEM

(ID NUMERIC(3) CONSTRAINT FK REFERENCES ORDERS(ID),

ORDERID NUMERIC(3),

PRODUCTID NUMERIC(3),

UNITPRICE NUMERIC(4),

QUANTITY NUMERIC(4)

);

CREATE TABLE PRODUCT

(ID NUMERIC(3) CONSTRAINT FK1 REFERENCES ORDERS(ID),

PRODUCTNAME VARCHAR(10)

);

INSERT INTO ORDER\_ITEM VALUES(1,2,100,10,800);

INSERT INTO ORDER\_ITEM VALUES(2,3,101,20,950);

INSERT INTO ORDER\_ITEM VALUES(3,4,102,30,1300);

INSERT INTO ORDER\_ITEM VALUES(4,5,103,40,400);

\*\*

SELECT ORDERS.ORDERNUMBER,ORDERS.ORDERDATE,PRODUCT.PRODUCTNAME,ORDER\_ITEM.QUANTITY,ORDER\_ITEM.UNITPRICE

FROM ORDERS ORDERS JOIN ORDER\_ITEM ORDER\_ITEM ON

ORDERS.ID=ORDER\_ITEM.ID

JOIN PRODUCT PRODUCT ON PRODUCT.ID=ORDERS.ID

ORDER BY ORDERNUMBER

1. Find the 2nd minimum salary of the employee.

SELECT MIN(sal) FROM Emp WHERE sal NOT IN (SELECT MIN(sal) FROM Emp);

1. Find the max 3 salaries from employee table.

SELECT \* FROM

(

SELECT \* FROM EMP

ORDER BY SAL DESC)

WHERE ROWNUM<=3

ORDER BY SAL DESC

1. Display common records from emp\_1 & emp\_2 tables. (Use INTERSECT)

SELECT ENAME,EMPNO

FROM EMP

INTERSECT

SELECT ENAME,EMPNO

FROM EMP1

1. Display department no wise total salary where more than 2 employees exist in a department.

SELECT SUM(SAL)

FROM EMP

GROUP BY DEPTNO

HAVING COUNT(DEPTNO)>2