DBMS

Name:Ashutosh Mishra

Reg: 17B91A05P4

1. Display all the details of all managers from emp table.

SQL QUERY:

select \* from emp where job='MANAGER';

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **EMPNO** | **ENAME** | **JOB** | **MG**  **R** | **HIREDATE** | **SAL** | **COMM** | **DEPTNO** |
| 7698 | BLAKE | MANAGER | 7839 | 01-MAY-81 | 2850 | - | 30 |
| 7782 | CLARK | MANAGER | 7839 | 09-JUN-81 | 2450 | - | 10 |
| 7566 | JONES | MANAGER | 7839 | 02-APR-81 | 2975 | - | 20 |

1. List the empno,ename,sal,daily sal of all employees in the ascending order of annual salary. SQL QUERY:

select empno,ename,sal,sal/30 as daily\_sal from emp order by sal\*12;

|  |  |  |  |
| --- | --- | --- | --- |
| **EMPNO** | **ENAME** | **SAL** | **DAILY\_SAL** |
| 7369 | SMITH | 800 | 26.66666666666666666666666666666666666667 |
| 7900 | JAMES | 950 | 31.66666666666666666666666666666666666667 |
| 7876 | ADAMS | 110  0 | 36.66666666666666666666666666666666666667 |
| 7654 | MARTIN | 125  0 | 41.66666666666666666666666666666666666667 |
| 7521 | WARD | 125  0 | 41.66666666666666666666666666666666666667 |
| 7934 | MILLER | 130  0 | 43.33333333333333333333333333333333333333 |
| 7844 | TURNER | 150  0 | 50 |
| 7499 | ALLEN | 160  0 | 53.33333333333333333333333333333333333333 |
| 7782 | CLARK | 245  0 | 81.66666666666666666666666666666666666667 |
| 7698 | BLAKE | 285  0 | 95 |
| 7566 | JONES | 297  5 | 99.16666666666666666666666666666666666667 |
| 7902 | FORD | 300  0 | 100 |
| 7788 | SCOTT | 300  0 | 100 |
| 7839 | KING | 500  0 | 166.666666666666666666666666666666666667 |

1. Display the empno,ename, job , hiredate , experience of all managers.

SQL QUERY:

select empno,ename,job,hiredate,months\_between(sysdate,hiredate) as experience from emp where job='MANAGER';

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **EMPN**  **O** | **ENAM**  **E** | **JOB** | **HIREDAT**  **E** | **EXPERIENCE** |
| 7698 | BLAKE | MANAGE  R | 01-MAY-81 | 459.082535842293906810035842293906810  036 |
| 7782 | CLARK | MANAGE  R | 09-JUN-81 | 457.824471326164874551971326164874551  971 |
| 7566 | JONES | MANAGE  R | 02-APR-81 | 460.050277777777777777777777777777777  778 |

1. Display all the details of employees whose comm is more than their salary.

SQL QUERY: select \* from emp where comm>sal;

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **EMPNO** | **ENAME** | **JOB** | **MG**  **R** | **HIREDATE** | **SAL** | **COMM** | **DEPTNO** |
| 7654 | MARTI  N | SALESMAN | 7698 | 28-SEP-81 | 1250 | 1400 | 30 |

1. List the employees along with their experience and daily salary is more than Rs.100.

SQL QUERY:

select ename,months\_between(sysdate,hiredate) as experience ,sal/30 from emp where sal/30 > 100;

|  |  |  |
| --- | --- | --- |
| **ENAM** |  |  |
| **E** | **EXPERIENCE** | **SAL/30** |
| KING | 452.566407183393070489844683393070  489845 | 166.666666666666666666666666666666  666667 |

1. List the employees who joined on ’01-may-81’ , ’03-dec-81’ , ’07-dec-81’ , ’09-jan-80’ in the ascending order of seniority.

SQL QUERY:

select \* from emp where hiredate='01-may-81' or hiredate='03-dec-81' or hiredate='07-dec-81' or hiredate='09-jan-80' order by hiredate;

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **EMPNO** | **ENAME** | **JOB** | **MGR** | **HIREDATE** | **SAL** | **COM**  **M** | **DEPTNO** |
| 7698 | BLAKE | MANAGER | 783  9 | 01-MAY-8  1 | 285  0 | - | 30 |
| 7900 | JAMES | CLERK | 769  8 | 03- DEC -8  1 | 950 | - | 30 |
| 7902 | FORD | ANALYST | 756  6 | 03-DEC-8  1 | 300  0 | - | 20 |

1. List the employees who are joined in the year 81.

SQL QUERY:

select \* from emp where hiredate between '01-jan-81' and '31-dec-81';

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **EMPNO** | **ENAME** | **JOB** | **MGR** | **HIREDATE** | **SAL** | **COM**  **M** | **DEPTNO** |
| 7839 | KING | PRESIDEN  T | - | 17-NOV-8  1 | 500  0 | - | 10 |
| 7698 | BLAKE | MANAGER | 783  9 | 01-MAY-8  1 | 285  0 | - | 30 |
| 7782 | CLARK | MANAGER | 783  9 | 09-JUN-8  1 | 245  0 | - | 10 |
| 7566 | JONES | MANAGER | 783  9 | 02-APR-8  1 | 297  5 | - | 20 |
| 7902 | FORD | ANALYST | 756  6 | 03-DEC-8  1 | 300  0 | - | 20 |
| 7499 | ALLEN | SALESMAN | 769  8 | 20-FEB-8  1 | 160  0 | 300 | 30 |
| 7521 | WARD | SALESMAN | 769  8 | 22-FEB-8  1 | 125  0 | 500 | 30 |
| 7654 | MARTIN | SALESMAN | 769  8 | 28-SEP-8  1 | 125  0 | 140  0 | 30 |
| 7844 | TURNER | SALESMAN | 769  8 | 08-SEP-8  1 | 150  0 | 0 | 30 |
| 7900 | JAMES | CLERK | 769  8 | 03- DEC -8  1 | 950 | - | 30 |

1. List the employees whose annual salary ranging from 22000 to 45000.

SQL QUERY:

select \* from emp where sal\*12<45000 and sal\*12>22000;

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **EMPNO** | **ENAME** | **JOB** | **MGR** | **HIREDATE** | **SAL** | **COM**  **M** | **DEPTNO** |
| 7698 | BLAKE | MANAGER | 783  9 | 01-MAY-8  1 | 285  0 | - | 30 |
| 7782 | CLARK | MANAGER | 783  9 | 09-JUN-8  1 | 245  0 | - | 10 |
| 7566 | JONES | MANAGER | 783  9 | 02-APR-8  1 | 297  5 | - | 20 |
| 7788 | SCOTT | ANALYST | 756  6 | 19-APR-8  7 | 300  0 | - | 20 |
| 7902 | FORD | ANALYST | 756  6 | 03-DEC-8  1 | 300  0 | - | 20 |

1. List the enames those who are having 5 characters in their names.

SQL QUERY:

select \* from emp where ename like '\_\_\_\_\_';

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **EMPNO** | **ENAME** | **JOB** | **MGR** | **HIREDATE** | **SAL** | **COM**  **M** | **DEPTNO** |
| 7698 | BLAKE | MANAGER | 783  9 | 01-MAY-8  1 | 285  0 | - | 30 |
| 7782 | CLARK | MANAGER | 783  9 | 09-JUN-8  1 | 245  0 | - | 10 |
| 7566 | JONES | MANAGER | 783  9 | 02-APR-8  1 | 297  5 | - | 20 |
| 7788 | SCOTT | ANALYST | 756  6 | 19-APR-8  7 | 300  0 | - | 20 |
| 7369 | SMITH | CLERK | 790  2 | 17- DEC -8  0 | 800 | - | 20 |
| 7499 | ALLEN | SALESMAN | 769  8 | 20-FEB-8  1 | 160  0 | 300 | 30 |
| 7876 | ADAMS | CLERK | 778  8 | 23-MAY-8  7 | 110  0 | - | 20 |
| 7900 | JAMES | CLERK | 769  8 | 03- DEC -8  1 | 950 | - | 30 |

1. List the enames those are starting with ‘s’ and with 5 characters.

SQL QUERY:

select \* from emp where ename like 'S\_\_\_\_';

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **EMPNO** | **ENAME** | **JOB** | **MGR** | **HIREDATE** | **SAL** | **COM**  **M** | **DEPTNO** |
| 7788 | SCOTT | ANALYST | 756  6 | 19-APR-8  7 | 300  0 | - | 20 |
| 7369 | SMITH | CLERK | 790  2 | 17- DEC -8  0 | 800 | - | 20 |

1. List the employees those are having 4 characters and 3r​ d​ character must be ‘r’.

SQL QUERY:

select \* from emp where ename like '\_\_R\_';

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **EMPNO** | **ENAME** | **JOB** | **MGR** | **HIREDATE** | **SAL** | **COM**  **M** | **DEPTNO** |
| 7902 | FORD | ANALYST | 756  6 | 03-DEC-8  1 | 300  0 | - | 20 |
| 7521 | WARD | SALESMAN | 769  8 | 22-FEB-8  1 | 125  0 | 500 | 30 |

1. List the 5 characters names starting with ‘s’ and ending with ‘h’.

SQL QUERY:

select \* from emp where ename like 'S\_\_\_H';

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **EMPNO** | **ENAME** | **JOB** | **MGR** | **HIREDATE** | **SAL** | **COM**  **M** | **DEPTNO** |
| 7369 | SMITH | CLERK | 790  2 | 17- DEC -8  0 | 800 | - | 20 |

1. List the employees whose names having ‘ll’ together.

SQL QUERY:

select \* from emp where ename like '%LL%';

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **EMPNO** | **ENAME** | **JOB** | **MGR** | **HIREDATE** | **SAL** | **COM**  **M** | **DEPTNO** |
| 7499 | ALLEN | SALESMAN | 769  8 | 20-FEB-8  1 | 160  0 | 300 | 30 |
| 7934 | MILLER | CLERK | 778  2 | 23-JAN-8  2 | 130  0 | - | 10 |

1. List the employees who are working under manager.

SQL QUERY:

select \* from emp where mgr in (7698,7782,7566);

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **EMPNO** | **ENAME** | **JOB** | **MGR** | **HIREDATE** | **SAL** | **COM**  **M** | **DEPTNO** |
| 7788 | SCOTT | ANALYST | 756  6 | 19-APR-8  7 | 300  0 | - | 20 |
| 7902 | FORD | ANALYST | 756  6 | 03-DEC-8  1 | 300  0 | - | 20 |
| 7499 | ALLEN | SALESMAN | 769  8 | 20-FEB-8  1 | 160  0 | 300 | 30 |
| 7521 | WARD | SALESMAN | 769  8 | 22-FEB-8  1 | 125  0 | 500 | 30 |
| 7654 | MARTIN | SALESMAN | 769  8 | 28-SEP-8  1 | 125  0 | 140  0 | 30 |
| 7844 | TURNER | SALESMAN | 769  8 | 08-SEP-8  1 | 150  0 | 0 | 30 |
| 7900 | JAMES | CLERK | 769  8 | 03- DEC -8  1 | 950 | - | 30 |
| 7934 | MILLER | CLERK | 778  2 | 23-JAN-8  2 | 130  0 | - | 10 |

1. List the employees who joined in any year but not December.

SQL QUERY:

select \* from emp where to\_char(hiredate, 'mon')<>'dec';

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **EMPNO** | **ENAME** | **JOB** | **MGR** | **HIREDATE** | **SAL** | **COM**  **M** | **DEPTNO** |
| 7839 | KING | PRESIDEN  T | - | 17-NOV-8  1 | 500  0 | - | 10 |
| 7698 | BLAKE | MANAGER | 783  9 | 01-MAY-8  1 | 285  0 | - | 30 |
| 7782 | CLARK | MANAGER | 783  9 | 09-JUN-8  1 | 245  0 | - | 10 |
| 7566 | JONES | MANAGER | 783  9 | 02-APR-8  1 | 297  5 | - | 20 |
| 7788 | SCOTT | ANALYST | 756  6 | 19-APR-8  7 | 300  0 | - | 20 |
| 7499 | ALLEN | SALESMAN | 769  8 | 20-FEB-8  1 | 160  0 | 300 | 30 |
| 7521 | WARD | SALESMAN | 769  8 | 22-FEB-8  1 | 125  0 | 500 | 30 |
| 7654 | MARTIN | SALESMAN | 769  8 | 28-SEP-8  1 | 125  0 | 140  0 | 30 |
| 7844 | TURNER | SALESMAN | 769  8 | 08-SEP-8  1 | 150  0 | 0 | 30 |
| 7876 | ADAMS | CLERK | 778  8 | 23-MAY-8  7 | 110  0 | - | 20 |
| 7934 | MILLER | CLERK | 778  2 | 23-JAN-8  2 | 130  0 | - | 10 |

1. List all the clerks having deptno 20.

SQL QUERY:

select ename from emp where deptno=20 and job='CLERK';

|  |
| --- |
| **ENAME** |
| SMITH |
| ADAMS |

1. List the total information of emp table along with dname and location of all the employees working under accounting and research in the ascending deptno.

SQL QUERY:

select \* from emp,dept where dname in ('ACCOUNTING','RESEARCH') and emp.deptno=dept.deptno order by emp.deptno;

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **EMPN**  **O** | **ENAM**  **E** | **JOB** | **MGR** | **HIREDA**  **TE** | **SAL** | **COM**  **M** | **DEPT**  **NO** | **DEPT**  **NO** | **DNAME** | **LOC** |
| 7934 | MILL  ER | CLERK | 778  2 | 23-JAN  -82 | 130  0 | - | 10 | 10 | ACCOUNTI  NG | NEW  YORK |
| 7839 | KING | PRESIDE  NT | - | 17-NOV  -81 | 500  0 | - | 10 | 10 | ACCOUNTI  NG | NEW  YORK |
| 7782 | CLAR  K | MANAGER | 783  9 | 09-JUN  -81 | 245  0 | - | 10 | 10 | ACCOUNTI  NG | NEW  YORK |
| 7876 | ADAM  S | CLERK | 778  8 | 23-MAY  -87 | 110  0 | - | 20 | 20 | RESEARCH | DALL  AS |
| 7369 | SMIT  H | CLERK | 790  2 | 17-DEC  -80 | 800 | - | 20 | 20 | RESEARCH | DALL  AS |
| 7902 | FORD | ANALYST | 756  6 | 03-DEC  -81 | 300  0 | - | 20 | 20 | RESEARCH | DALL  AS |
| 7566 | JONE  S | MANAGER | 783  9 | 02-APR  -81 | 297  5 | - | 20 | 20 | RESEARCH | DALL  AS |
| 7788 | SCOT  T | ANALYST | 756  6 | 19-APR  -87 | 300  0 | - | 20 | 20 | RESEARCH | DALL  AS |