Cycle 3

CREATE TABLE EMP (EMPNO NUMBER(4) NOT NULL,

ENAME VARCHAR2(10),

JOB VARCHAR2(9),

MGR NUMBER(4),

HIREDATE DATE,

SAL NUMBER(7, 2),

COMM NUMBER(7, 2),

DEPTNO NUMBER(2));

Table created.

2.

INSERT INTO EMP VALUES (7369, 'SMITH', 'CLERK', 7902, TO\_DATE('17-DEC-1980', 'DD-MON-YYYY'), 800, NULL, 20);

INSERT INTO EMP VALUES (7499, 'ALLEN', 'SALESMAN', 7698, TO\_DATE('20-FEB-1981', 'DD-MON-YYYY'), 1600, 300, 30);

INSERT INTO EMP VALUES (7521, 'WARD', 'SALESMAN', 7698, TO\_DATE('22-FEB-1981', 'DD-MON-YYYY'), 1250, 500, 30);

INSERT INTO EMP VALUES (7566, 'JONES', 'MANAGER', 7839, TO\_DATE('2-APR-1981', 'DD-MON-YYYY'), 2975, NULL, 20);

INSERT INTO EMP VALUES (7654, 'MARTIN', 'SALESMAN', 7698,TO\_DATE('28-SEP-1981', 'DD-MON-YYYY'), 1250, 1400, 30);

INSERT INTO EMP VALUES (7698, 'BLAKE', 'MANAGER', 7839,TO\_DATE('1-MAY-1981', 'DD-MON-YYYY'), 2850, NULL, 30);

INSERT INTO EMP VALUES (7782, 'CLARK', 'MANAGER', 7839,TO\_DATE('9-JUN-1981', 'DD-MON-YYYY'), 2450, NULL, 10);

INSERT INTO EMP VALUES (7788, 'SCOTT', 'ANALYST', 7566,TO\_DATE('09-DEC-1982', 'DD-MON-YYYY'), 3000, NULL, 20);

INSERT INTO EMP VALUES (7839, 'KING', 'PRESIDENT', NULL,TO\_DATE('17-NOV-1981', 'DD-MON-YYYY'), 5000, NULL, 10);

INSERT INTO EMP VALUES (7844, 'TURNER', 'SALESMAN', 7698,TO\_DATE('8-SEP-1981', 'DD-MON-YYYY'), 1500, 0, 30);

INSERT INTO EMP VALUES (7876, 'ADAMS', 'CLERK', 7788,TO\_DATE('12-JAN-1983', 'DD-MON-YYYY'), 1100, NULL, 20);

INSERT INTO EMP VALUES (7900, 'JAMES', 'CLERK', 7698,TO\_DATE('3-DEC-1981', 'DD-MON-YYYY'), 950, NULL, 30);

INSERT INTO EMP VALUES (7902, 'FORD', 'ANALYST', 7566,TO\_DATE('3-DEC-1981', 'DD-MON-YYYY'), 3000, NULL, 20);

INSERT INTO EMP VALUES (7934, 'MILLER', 'CLERK', 7782,TO\_DATE('23-JAN-1982', 'DD-MON-YYYY'), 1300, NULL, 10);

3. SELECT \* FROM EMP

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **EMPNO** | **ENAME** | **JOB** | **MGR** | **HIREDATE** | **SAL** | **COMM** | **DEPTNO** |
| 7369 | SMITH | CLERK | 7902 | 17-DEC-80 | 800 |  | 20 |
| 7499 | ALLEN | SALESMAN | 7698 | 20-FEB-81 | 1600 | 300 | 30 |
| 7521 | WARD | SALESMAN | 7698 | 22-FEB-81 | 1250 | 500 | 30 |
| 7566 | JONES | MANAGER | 7839 | 02-APR-81 | 2975 |  | 20 |
| 7654 | MARTIN | SALESMAN | 7698 | 28-SEP-81 | 1250 | 1400 | 30 |
| 7698 | BLAKE | MANAGER | 7839 | 01-MAY-81 | 2850 |  | 30 |
| 7782 | CLARK | MANAGER | 7839 | 09-JUN-81 | 2450 |  | 10 |
| 7788 | SCOTT | ANALYST | 7566 | 09-DEC-82 | 3000 |  | 20 |
| 7839 | KING | PRESIDENT |  | 17-NOV-81 | 5000 |  | 10 |
| 7844 | TURNER | SALESMAN | 7698 | 08-SEP-81 | 1500 | 0 | 30 |
| 7876 | ADAMS | CLERK | 7788 | 12-JAN-83 | 1100 |  | 20 |
| 7900 | JAMES | CLERK | 7698 | 03-DEC-81 | 950 |  | 30 |
| 7902 | FORD | ANALYST | 7566 | 03-DEC-81 | 3000 |  | 20 |
| 7934 | MILLER | CLERK | 7782 | 23-JAN-82 | 1300 |  | 10 |

14 rows selected.

4.

select ename,round(months\_between(sysdate,hiredate),0)"Months\_worked" from emp order by(months\_between(sysdate,hiredate));

|  |  |
| --- | --- |
| **ENAME** | **Months\_worked** |
| ADAMS | 394 |
| SCOTT | 395 |
| MILLER | 406 |
| JAMES | 407 |
| FORD | 407 |
| KING | 408 |
| MARTIN | 410 |
| TURNER | 410 |
| CLARK | 413 |
| BLAKE | 415 |
| JONES | 415 |
| WARD | 417 |
| ALLEN | 417 |
| SMITH | 419 |

14 rows selected.

5. select ename,comm,decode(comm,'','No Commission') from emp;

|  |  |  |
| --- | --- | --- |
| **ENAME** | **COMM** | **DECODE(COMM,'** |
| SMITH |  | No Commission |
| ALLEN | 300 |  |
| WARD | 500 |  |
| JONES |  | No Commission |
| MARTIN | 1400 |  |
| BLAKE |  | No Commission |
| CLARK |  | No Commission |
| SCOTT |  | No Commission |
| KING |  | No Commission |
| TURNER | 0 |  |
| ADAMS |  | No Commission |
| JAMES |  | No Commission |
| FORD |  | No Commission |
| MILLER |  | No Commission |

14 rows selected.

6.

select job,count(job) from emp group by job order by(count(job)) desc;

|  |  |
| --- | --- |
| **JOB** | **COUNT(JOB)** |
| CLERK | 4 |
| SALESMAN | 4 |
| MANAGER | 3 |
| ANALYST | 2 |
| PRESIDENT | 1 |

7.

select job,count(job) from emp where sal>1000 group by job order by(count(job)) desc;

|  |  |
| --- | --- |
| **JOB** | **COUNT(JOB)** |
| SALESMAN | 4 |
| MANAGER | 3 |
| ANALYST | 2 |
| CLERK | 2 |
| PRESIDENT | 1 |

8. select job,count(job) from emp group by job;

|  |  |
| --- | --- |
| **JOB** | **COUNT(JOB)** |
| ANALYST | 2 |
| CLERK | 4 |
| MANAGER | 3 |
| PRESIDENT | 1 |
| SALESMAN | 4 |

9. select deptno,count(ename) from emp group by deptno having count(ename)>1

|  |  |
| --- | --- |
| **DEPTNO** | **COUNT(ENAME)** |
| 10 | 3 |
| 20 | 5 |
| 30 | 6 |

10.

select deptno,count(deptno)from emp group by deptno having count (deptno)>1 order by deptno desc

|  |  |
| --- | --- |
| **DEPTNO** | **COUNT(DEPTNO)** |
| 30 | 6 |
| 20 | 5 |
| 10 | 3 |

11. select deptno,count(deptno),sal from emp group by deptno,sal order by deptno,sal desc

|  |  |  |
| --- | --- | --- |
| **DEPTNO** | **COUNT(DEPTNO)** | **SAL** |
| 10 | 1 | 5000 |
| 10 | 1 | 2450 |
| 10 | 1 | 1300 |
| 20 | 2 | 3000 |
| 20 | 1 | 2975 |
| 20 | 1 | 1100 |
| 20 | 1 | 800 |
| 30 | 1 | 2850 |
| 30 | 1 | 1600 |
| 30 | 1 | 1500 |
| 30 | 2 | 1250 |
| 30 | 1 | 950 |

12 rows selected.

12.

13.

|  |  |  |  |
| --- | --- | --- | --- |
| **EMPNO** | **ENAME** | **SAL** | **New Salary** |
| 7369 | SMITH | 800 | 920 |
| 7499 | ALLEN | 1600 | 1840 |
| 7521 | WARD | 1250 | 1437.5 |
| 7566 | JONES | 2975 | 3421.25 |
| 7654 | MARTIN | 1250 | 1437.5 |
| 7698 | BLAKE | 2850 | 3277.5 |
| 7782 | CLARK | 2450 | 2817.5 |
| 7788 | SCOTT | 3000 | 3450 |
| 7839 | KING | 5000 | 5750 |
| 7844 | TURNER | 1500 | 1725 |
| 7876 | ADAMS | 1100 | 1265 |
| 7900 | JAMES | 950 | 1092.5 |
| 7902 | FORD | 3000 | 3450 |
| 7934 | MILLER | 1300 | 1495 |

14 rows selected.

14. select \* from emp where to\_char(hiredate,'dd')<16;

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **EMPNO** | **ENAME** | **JOB** | **MGR** | **HIREDATE** | **SAL** | **COMM** | **DEPTNO** |
| 7566 | JONES | MANAGER | 7839 | 02-APR-81 | 2975 |  | 20 |
| 7698 | BLAKE | MANAGER | 7839 | 01-MAY-81 | 2850 |  | 30 |
| 7782 | CLARK | MANAGER | 7839 | 09-JUN-81 | 2450 |  | 10 |
| 7788 | SCOTT | ANALYST | 7566 | 09-DEC-82 | 3000 |  | 20 |
| 7844 | TURNER | SALESMAN | 7698 | 08-SEP-81 | 1500 | 0 | 30 |
| 7876 | ADAMS | CLERK | 7788 | 12-JAN-83 | 1100 |  | 20 |
| 7900 | JAMES | CLERK | 7698 | 03-DEC-81 | 950 |  | 30 |
| 7902 | FORD | ANALYST | 7566 | 03-DEC-81 | 3000 |  | 20 |

8 rows selected.

15. select deptno,job from emp where deptno=10 or deptno=20;

|  |  |
| --- | --- |
| **DEPTNO** | **JOB** |
| 20 | CLERK |
| 20 | MANAGER |
| 10 | MANAGER |
| 20 | ANALYST |
| 10 | PRESIDENT |
| 20 | CLERK |
| 20 | ANALYST |
| 10 | CLERK |

8 rows selected.

16. select \* from emp where to\_char(hiredate,'yyyy')>1981

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **EMPNO** | **ENAME** | **JOB** | **MGR** | **HIREDATE** | **SAL** | **COMM** | **DEPTNO** |
| 7788 | SCOTT | ANALYST | 7566 | 09-DEC-82 | 3000 |  | 20 |
| 7876 | ADAMS | CLERK | 7788 | 12-JAN-83 | 1100 |  | 20 |
| 7934 | MILLER | CLERK | 7782 | 23-JAN-82 | 1300 |  | 10 |

17. select ename,job,sal,comm from emp where comm>0 order by sal desc;

|  |  |  |  |
| --- | --- | --- | --- |
| **ENAME** | **JOB** | **SAL** | **COMM** |
| ALLEN | SALESMAN | 1600 | 300 |
| WARD | SALESMAN | 1250 | 500 |
| MARTIN | SALESMAN | 1250 | 1400 |

18.

select ename,decode(comm,nvl(comm,0),'yes''no') from emp

|  |  |
| --- | --- |
| **ENAME** | **DECODE** |
| SMITH |  |
| ALLEN | yes'no |
| WARD | yes'no |
| JONES |  |
| MARTIN | yes'no |
| BLAKE |  |
| CLARK |  |
| SCOTT |  |
| KING |  |
| TURNER | yes'no |
| ADAMS |  |
| JAMES |  |
| FORD |  |
| MILLER |  |

14 rows selected.

19.