SQL> CREATE TABLE EMP(empno NUMBER(4) PRIMARY KEY, ename VARCHAR2(25), job VARCHAR2(12), salary NUMBER(10,2), commission NUMBER(7,2), deptno NUMBER(2));

Table created.

SQL> DESC EMP;

Name Null? Type

----------------------------------------- -------- ----------------------------

EMPNO NOT NULL NUMBER(4)

ENAME VARCHAR2(25)

JOB VARCHAR2(12)

SALARY NUMBER(10,2)

COMMISSION NUMBER(7,2)

DEPTNO NUMBER(2)

SQL> INSERT INTO EMP VALUES(&empno, '&ename','&job',&salary, &commission, &deptno);

Enter value for empno: 100

Enter value for ename: TOBIN

Enter value for job: DOCTOR

Enter value for salary: 15000

Enter value for commission: 150

Enter value for deptno: 21

old 1: INSERT INTO EMP VALUES(&empno, '&ename','&job',&salary, &commission, &deptno)

new 1: INSERT INTO EMP VALUES(100, 'TOBIN','DOCTOR',15000, 150, 21)

1 row created.

SQL> INSERT INTO EMP VALUES(&empno, '&ename','&job',&salary, &commission, &deptno);

Enter value for empno: 101

Enter value for ename: THOMAS

Enter value for job: HACKER

Enter value for salary: 25000

Enter value for commission: 250

Enter value for deptno: 25

old 1: INSERT INTO EMP VALUES(&empno, '&ename','&job',&salary, &commission, &deptno)

new 1: INSERT INTO EMP VALUES(101, 'THOMAS','HACKER',25000, 250, 25)

1 row created.

SQL> SET LINESIZE 100;

SQL> DESC EMP;

Name Null? Type

----------------------------------------------------- -------- ------------------------------------

EMPNO NOT NULL NUMBER(4)

ENAME VARCHAR2(25)

JOB VARCHAR2(12)

SALARY NUMBER(10,2)

COMMISSION NUMBER(7,2)

DEPTNO NUMBER(2)

SQL> SELECT \* FROM EMP;

EMPNO ENAME JOB SALARY COMMISSION DEPTNO

---------- ------------------------- ------------ ---------- ---------- ----------

100 TOBIN DOCTOR 15000 150 21

101 THOMAS HACKER 25000 250 25

SQL> UPDATE EMP SET job='analyst' WHERE job='DOCTOR';

1 row updated.

SQL> ALTER TABLE EMP ADD(date\_join DATE);

Table altered.

SQL> UPDATE EMP SET date\_join='17-dec-21' WHERE empno=100;

1 row updated.

SQL> UPDATE EMP SET date\_join='15-dec-20' WHERE empno=101;

1 row updated.

SQL> SELECT \* FROM EMP;

EMPNO ENAME JOB SALARY COMMISSION DEPTNO DATE\_JOIN

---------- ------------------------- ------------ ---------- ---------- ---------- ---------

100 TOBIN analyst 15000 150 21 17-DEC-21

101 THOMAS HACKER 25000 250 25 15-DEC-20

SQL> INSERT INTO EMP VALUES(&empno, '&ename','&job',&salary, &commission, &deptno, '&date\_join');

Enter value for empno: 102

Enter value for ename: MANU

Enter value for job: analyst

Enter value for salary: 22000

Enter value for commission: 120

Enter value for deptno: 24

Enter value for date\_join: 22-JAN-21

old 1: INSERT INTO EMP VALUES(&empno, '&ename','&job',&salary, &commission, &deptno, '&date\_join')

new 1: INSERT INTO EMP VALUES(102, 'MANU','analyst',22000, 120, 24, '22-JAN-21')

1 row created.

SQL> INSERT INTO EMP VALUES(&empno, '&ename','&job',&salary, &commission, &deptno, '&date\_join');

Enter value for empno: 103

Enter value for ename: JERRY

Enter value for job: ENGINEER

Enter value for salary: 21000

Enter value for commission: 160

Enter value for deptno: 27

Enter value for date\_join: 18-NOV-20

old 1: INSERT INTO EMP VALUES(&empno, '&ename','&job',&salary, &commission, &deptno, '&date\_join')

new 1: INSERT INTO EMP VALUES(103, 'JERRY','ENGINEER',21000, 160, 27, '18-NOV-20')

1 row created.

SQL> SELECT \* FROM EMP;

EMPNO ENAME JOB SALARY COMMISSION DEPTNO DATE\_JOIN

---------- ------------------------- ------------ ---------- ---------- ---------- ---------

100 TOBIN analyst 15000 150 21 17-DEC-21

101 THOMAS HACKER 25000 250 25 15-DEC-20

102 MANU analyst 22000 120 24 22-JAN-21

103 JERRY ENGINEER 21000 160 27 18-NOV-20

SQL> SELECT DISTINCT job FROM EMP;

JOB

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HACKER

analyst

ENGINEER

SQL> SELECT ename FROM EMP WHERE deptno=21 OR deptno=24;

ENAME

-------------------------

TOBIN

MANU

SQL> SELECT ename, SUM(salary+commission) FROM EMP GROUP BY ename;

ENAME SUM(SALARY+COMMISSION)

------------------------- ----------------------

THOMAS 25250

TOBIN 15150

JERRY 21160

MANU 22120

SQL> SELECT COUNT(empno) FROM EMP;

COUNT(EMPNO)

------------

4

SQL> SELECT MAX(salary) FROM EMP;

MAX(SALARY)

-----------

25000

SQL> SELECT MIN(salary) FROM EMP;

MIN(SALARY)

-----------

15000

SQL> SELECT SUM(salary) FROM EMP;

SUM(SALARY)

-----------

83000

SQL> SELECT AVG(salary) FROM EMP;

AVG(SALARY)

-----------

20750

SQL> CREATE OR REPLACE VIEW A AS SELECT empno,ename FROM EMP;

View created.

SQL> SELECT \* FROM A;

EMPNO ENAME

---------- -------------------------

100 TOBIN

101 THOMAS

102 MANU

103 JERRY

SQL> SELECT ename FROM EMP ORDER BY ename;

ENAME

-------------------------

JERRY

MANU

THOMAS

TOBIN

SQL> SELECT ename FROM EMP ORDER BY ename DESC;

ENAME

-------------------------

TOBIN

THOMAS

MANU

JERRY

SQL> SELECT ename FROM EMP ORDER BY salary;

ENAME

-------------------------

TOBIN

JERRY

MANU

THOMAS