SET -1

SQL> CREATE TABLE EMP(EMPNO NUMBER(4) PRIMARY KEY,Ename VARCHAR(20),Job VARCHAR(20),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(20)

JOB VARCHAR2(20)

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: 1

Enter value for ename: anu

Enter value for job: manager

Enter value for salary: 75000

Enter value for commission: 5000

Enter value for deptno: 11

old 1: INSERT INTO EMP VALUES(&Empno,'&Ename','&Job',&Salary,&Commission,&deptno)

new 1: INSERT INTO EMP VALUES(1,'anu','manager',75000,5000,11)

1 row created.

SQL> /

Enter value for empno: 2

Enter value for ename: vishnu

Enter value for job: developer

Enter value for salary: 60000

Enter value for commission: 10000

Enter value for deptno: 22

old 1: INSERT INTO EMP VALUES(&Empno,'&Ename','&Job',&Salary,&Commission,&deptno)

new 1: INSERT INTO EMP VALUES(2,'vishnu','analyst',60000,10000,22)

1 row created.

SQL> /

Enter value for empno: 3

Enter value for ename: anju

Enter value for job:

Enter value for salary: 30000

Enter value for commission: 6000

Enter value for deptno: 24

old 1: INSERT INTO EMP VALUES(&Empno,'&Ename','&Job',&Salary,&Commission,&deptno)

new 1: INSERT INTO EMP VALUES(3,'anju','',30000,6000,24)

1 row created.

SQL> SELECT \* FROM EMP;

EMPNO ENAME JOB SALARY COMMISSION DEPTNO

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

1 anu manager 75000 5000 11

2 vishnu analyst 60000 10000 22

3 anju NULL 30000 6000 24

SQL> UPDATE EMP SET Job='clerk' WHERE Job='NULL';

1 row updated.

SQL> ALTER TABLE EMP ADD(dOJ DATE);

Table altered.

SQL> UPDATE EMP SET doj='17-DEC-80';

3 rows updated.

SQL> SELECT \* FROM EMP;

EMPNO ENAME JOB SALARY COMMISSION DEPTNO DOJ

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

1 anu manager 75000 5000 11 17-DEC-80

2 vishnu data\_analyst 60000 10000 22 17-DEC-80

3 anju clerk 30000 6000 24 17-DEC-80

SQL> SELECT DISTINCT Job FROM EMP;

JOB

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

data\_analyst

clerk

manager

SQL> SELECT Empno,Ename,Job FROM EMP;

EMPNO ENAME JOB

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

1 anu manager

2 vishnu data\_analyst

3 anju clerk

SQL> SELECT Ename FROM EMP WHERE deptno=22;

ENAME

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

vishnu

SQL> SELECT Ename FROM EMP WHERE deptno=22 OR deptno=24;

ENAME

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

vishnu

anju

SQL> SELECT SUM(Salary) FROM EMP;

SUM(SALARY)

-----------

165000

SQL> SELECT Ename, SUM(Salary+Commission) FROM EMP GROUP BY Ename ;

ENAME SUM(SALARY+COMMISSION)

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

anju 36000

anu 80000

vishnu 70000

SQL> UPDATE EMP SET Salary=Salary+Commission;

3 rows updated.

SQL> SELECT \* FROM EMP;

EMPNO ENAME JOB SALARY COMMISSION DEPTNO DOJ

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

1 anu manager 80000 5000 11 17-DEC-80

2 vishnu data\_analyst 70000 10000 22 17-DEC-80

3 anju clerk 36000 6000 24 17-DEC-80

SQL> ALTER TABLE EMP DROP COLUMN Commission ;

Table altered.

SQL> SELECT \* FROM EMP;

EMPNO ENAME JOB SALARY DEPTNO DOJ

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

1 anu manager 80000 11 17-DEC-80

2 vishnu data\_analyst 70000 22 17-DEC-80

3 anju clerk 36000 24 17-DEC-80

SQL> ALTER TABLE EMP RENAME COLUMN Ename TO Empname;

Table altered.

SQL> SELECT \* FROM EMP;

EMPNO EMPNAME JOB SALARY DEPTNO DOJ

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

1 anu manager 80000 11 17-DEC-80

2 vishnu data\_analyst 70000 22 17-DEC-80

3 anju clerk 36000 24 17-DEC-80

SQL> ALTER TABLE EMP RENAME TO EEMP;

Table altered.

AGGREGATE

SQL> CREATE TABLE Emp(Eid NUMBER(5)PRIMARY KEY,Ename VARCHAR(20),Age NUMBER(3),Salary NUMBER(10));

Table created.

SQL> INSERT INTO Emp VALUES(&Eid,'&Ename',&Age,&Salary);

Enter value for eid: 101

Enter value for ename: anu

Enter value for age: 34

Enter value for salary: 30000

old 1: INSERT INTO Emp VALUES(&Eid,'&Ename',&Age,&Salary)

new 1: INSERT INTO Emp VALUES(101,'anu',34,30000)

1 row created.

SQL> /

Enter value for eid: 102

Enter value for ename: rahul

Enter value for age: 29

Enter value for salary: 35000

old 1: INSERT INTO Emp VALUES(&Eid,'&Ename',&Age,&Salary)

new 1: INSERT INTO Emp VALUES(102,'rahul',29,35000)

1 row created.

SQL> SELECT \* FROM EMP;

EID ENAME AGE SALARY

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

101 anu 34 30000

102 rahul 29 35000

SQL> SELECT COUNT(Eid)FROM EMP;

COUNT(EID)

----------

2

SQL> SELECT MAX(Age)FROM EMP;

MAX(AGE)

----------

34

SQL> SELECT MIN(Age)FROM Emp;

MIN(AGE)

----------

29

SQL> SELECT AVG(Salary)FROM EMP;

AVG(SALARY)

-----------

32500

**VIEWS**

SQL> CREATE OR REPLACE VIEW EmpView AS SELECT Ename, Age FROM Emp;

View created.

SQL> SELECT \*FROM EmpView;

ENAME AGE

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

anu 34

rahul 29

SQL> CREATE VIEW EView AS SELECT Eid,Ename,Age FROM EMP;

View created.

SQL> SELECT \*FROM EView;

EID ENAME AGE

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

101 anu 34

102 rahul 29

SQL> SELECT Ename,Salary FROM Emp ORDER BY Salary DESC;

ENAME SALARY

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

rahul 35000

anu 30000

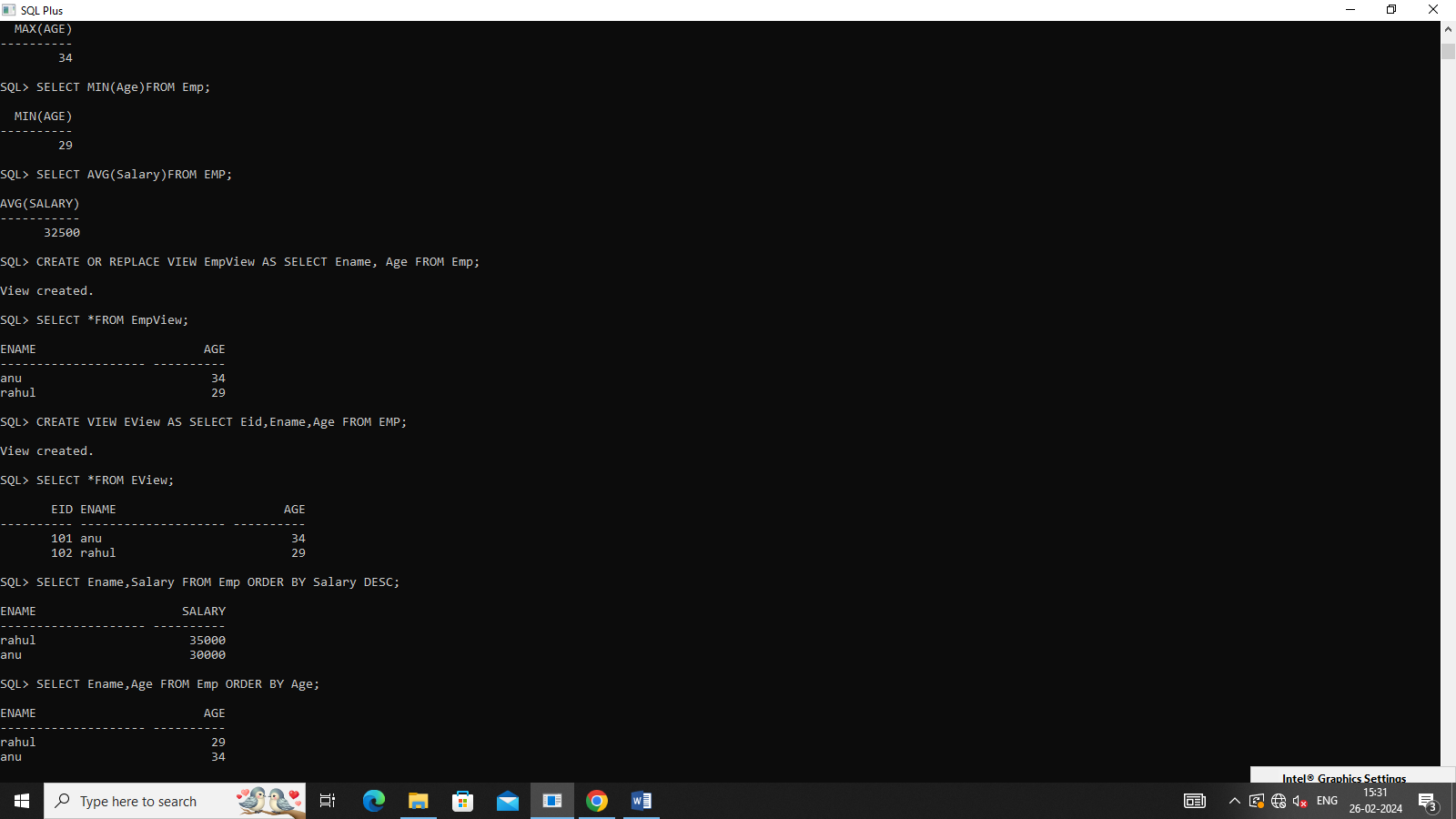
SQL> SELECT Ename,Age FROM Emp ORDER BY Age;

ENAME AGE

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

rahul 29

anu 34



QN:::

SQL> CREATE TABLE Sailors(Sid NUMBER(3) PRIMARY KEY,Sname VARCHAR(20),Rating NUMBER(3),Age NUMBER(3));

Table created.

SQL> DESC Sailors;

Name Null? Type

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

SID NOT NULL NUMBER(3)

SNAME VARCHAR2(20)

RATING NUMBER(3)

AGE NUMBER(3)

SQL> CREATE TABLE Boats (Bid NUMBER(3)PRIMARY KEY ,Bname VARCHAR(20),Color VARCHAR(20));

Table created.

SQL> DESC Boats;

Name Null? Type

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

BID NOT NULL NUMBER(3)

BNAME VARCHAR2(20)

COLOR VARCHAR2(20)

SQL> CREATE TABLE Reserves(Sid NUMBER REFERENCES Sailors(Sid),Bid NUMBER REFERENCES Boats(Bid),Day DATE);

Table created.

SQL> DESC Reserves;

Name Null? Type

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

SID NUMBER

BID NUMBER

DAY DATE

SQL> INSERT INTO Sailors VALUES(&Sid,'&Sname',&Rating,&Age);

Enter value for sid: 1

Enter value for sname: amal

Enter value for rating: 8

Enter value for age: 45

old 1: INSERT INTO Sailors VALUES(&Sid,'&Sname',&Rating,&Age)

new 1: INSERT INTO Sailors VALUES(1,'amal',8,45)

1 row created.

SQL> /

Enter value for sid: 2

Enter value for sname: arun

Enter value for rating: 7

Enter value for age: 49

old 1: INSERT INTO Sailors VALUES(&Sid,'&Sname',&Rating,&Age)

new 1: INSERT INTO Sailors VALUES(2,'arun',7,49)

1 row created.

SQL> INSERT INTO Boats VALUES(&Bid,'&Bname','&Color');

Enter value for bid: 101

Enter value for bname: mary matha

Enter value for color: white

old 1: INSERT INTO Boats VALUES(&Bid,'&Bname','&Color')

new 1: INSERT INTO Boats VALUES(101,'mary matha','white')

1 row created.

SQL> /

Enter value for bid: 102

Enter value for bname: siva

Enter value for color: black

old 1: INSERT INTO Boats VALUES(&Bid,'&Bname','&Color')

new 1: INSERT INTO Boats VALUES(102,'siva','black')

1 row created.