Practical Examination February 2023
MCA Sem I
ADBMS

Q1
A)

```
SQL>  CREATE TYPE customers AS OBJECT(
  2     cID NUMBER,
  3     fName VARCHAR(255),
  4     mName VARCHAR(255),
  5     lName VARCHAR(255),
  6     street VARCHAR(255),
  7     city VARCHAR(255),
  8     pincode NUMBER,
  9     productname varchar2(255)
 10  );
 11  /

Type created.




SQL> create table customar of customers;

Table created.


SQL> insert into customar values (&cid, '&fname', '&mname', '&lname', '&street', '&city',&pincode, '&productname');
Enter value for cid: 1
Enter value for fname: devendra
Enter value for mname: singh
Enter value for lname: thakur
Enter value for street: dubey colony
Enter value for city: katni
Enter value for pincode: 483501
Enter value for productname: monitor
old   1: insert into customar values (&cid, '&fname', '&mname', '&lname', '&street', '&city',&pincode, '&productname')
new   1: insert into customar values (1, 'devendra', 'singh', 'thakur', 'dubey colony', 'katni',483501, 'monitor')

1 row created.
```

```
SQL> insert into customar values (&cid, '&fname', '&mname', '&lname', '&street', '&city',&pincode, '&productname');
Enter value for cid: 2
Enter value for fname: pushpendra
Enter value for mname: singh
Enter value for lname: thakur
Enter value for street: arera colony
Enter value for city: bhopal
Enter value for pincode: 452456
Enter value for productname: monitor
old   1: insert into customar values (&cid, '&fname', '&mname', '&lname', '&street', '&city',&pincode, '&productname')
new   1: insert into customar values (2, 'pushpendra', 'singh', 'thakur', 'arera colony', 'bhopal',452456, 'monitor')

1 row created.

SQL> insert into customar values (&cid, '&fname', '&mname', '&lname', '&street', '&city',&pincode, '&productname');
Enter value for cid: 3
Enter value for fname: Abhinay
Enter value for mname: Ashok
Enter value for lname: Mishra
Enter value for street: Gaur Marg
Enter value for city: Katni
Enter value for pincode: 483501
Enter value for productname: CPU
old   1: insert into customar values (&cid, '&fname', '&mname', '&lname', '&street', '&city',&pincode, '&productname')
new   1: insert into customar values (3, 'Abhinay', 'Ashok', 'Mishra', 'Gaur Marg', 'Katni',483501, 'CPU')

1 row created.

SQL> insert into customar values (&cid, '&fname', '&mname', '&lname', '&street', '&city',&pincode, '&productname');
Enter value for cid: 4
Enter value for fname: dhyanu
Enter value for mname: ramphal
Enter value for lname: tiwari
Enter value for street: Gopal Nagar
Enter value for city: Katni
Enter value for pincode: 483501
Enter value for productname: Mouse
old   1: insert into customar values (&cid, '&fname', '&mname', '&lname', '&street', '&city',&pincode, '&productname')
new   1: insert into customar values (4, 'dhyanu', 'ramphal', 'tiwari', 'Gopal Nagar', 'Katni',483501, 'Mouse')

1 row created.

SQL> insert into customar values (&cid, '&fname', '&mname', '&lname', '&street', '&city',&pincode, '&productname');
Enter value for cid: 5
Enter value for fname: Atharva
Enter value for mname: Vilas
Enter value for lname: Patil
Enter value for street: Trambkeshwar
Enter value for city: Nashik
Enter value for pincode: 4564564
Enter value for productname: Mouse
old   1: insert into customar values (&cid, '&fname', '&mname', '&lname', '&street', '&city',&pincode, '&productname')
new   1: insert into customar values (5, 'Atharva', 'Vilas', 'Patil', 'Trambkeshwar ', 'Nashik',4564564, 'Mouse')

1 row created.

SQL> insert into customar values (&cid, '&fname', '&mname', '&lname', '&street', '&city',&pincode, '&productname');
Enter value for cid: 6
Enter value for fname: Atharva
Enter value for mname: Vilas
Enter value for lname: Patil
Enter value for street: Trambkeshwar
Enter value for city: Nashik
Enter value for pincode: 4564564
Enter value for productname: Keyboard
old   1: insert into customar values (&cid, '&fname', '&mname', '&lname', '&street', '&city',&pincode, '&productname')
new   1: insert into customar values (6, 'Atharva', 'Vilas', 'Patil', 'Trambkeshwar ', 'Nashik',4564564, 'Keyboard')

1 row created.
```

```
SQL> select fname,mname,lname from customar where productname='monitor';

FNAME
-----------------------------------------------------------------------
MNAME
-----------------------------------------------------------------------
LNAME
-----------------------------------------------------------------------
devendra
singh
thakur

pushpendra
singh
thakur


SQL> select fname from customar where city='katni';

FNAME
------------------------------------------------------
devendra


SQL> update customar set productname='pendrive' where cid=5 and city='mumbai';

1 row updated.
```

Q1
B)

```
SQL>  create table Tax(eid number(5),ename varchar2(10), deptid number(5),
 2 deptname varchar2(15), taxamt number(10), state varchar2(10)) partition by range(taxamt)
 3 (PARTITION P1 VALUES LESS THAN(20000),PARTITION P2 VALUES LESS THAN(30000),
 4 Partition P3 Values less than(50000));

Table created.
```

```
SQL> insert into Tax values(&eid,'&ename', &deptid, '&deptname', &taxamt, '&state');
Enter value for eid: 1
Enter value for ename: Devendra
Enter value for deptid: 101
Enter value for deptname: HR
Enter value for taxamt: 15000
Enter value for state: Himachal
old   1: insert into Tax values(&eid,'&ename', &deptid, '&deptname', &taxamt, '&state')
new   1: insert into Tax values(1,'Devendra', 101, 'HR', 15000, 'Himachal')

1 row created.

SQL> insert into Tax values(&eid,'&ename', &deptid, '&deptname', &taxamt, '&state');
Enter value for eid: 2
Enter value for ename: Dhruv
Enter value for deptid: 102
Enter value for deptname: Coder
Enter value for taxamt: 20000
Enter value for state: M.P.
old   1: insert into Tax values(&eid,'&ename', &deptid, '&deptname', &taxamt, '&state')
new   1: insert into Tax values(2,'Dhruv', 102, 'Coder', 20000, 'M.P.')

1 row created.

SQL> insert into Tax values(&eid,'&ename', &deptid, '&deptname', &taxamt, '&state');
Enter value for eid: 3
Enter value for ename: Om
Enter value for deptid: 103
Enter value for deptname: Purchase
Enter value for taxamt: 25000
Enter value for state: C.G.
old   1: insert into Tax values(&eid,'&ename', &deptid, '&deptname', &taxamt, '&state')
new   1: insert into Tax values(3,'Om', 103, 'Purchase', 25000, 'C.G.')

1 row created.
```

```
SQL>
SQL> insert into Tax values(&eid,'&ename', &deptid, '&deptname', &taxamt, '&state');
Enter value for eid: 4
Enter value for ename: Prachi
Enter value for deptid: 104
Enter value for deptname: Sales
Enter value for taxamt: 45000
Enter value for state: U.P.
old   1: insert into Tax values(&eid,'&ename', &deptid, '&deptname', &taxamt, '&state')
new   1: insert into Tax values(4,'Prachi', 104, 'Sales', 45000, 'U.P.')

1 row created.

SQL> insert into Tax values(&eid,'&ename', &deptid, '&deptname', &taxamt, '&state');
Enter value for eid: 5
Enter value for ename: Atharva
Enter value for deptid: 105
Enter value for deptname: Education
Enter value for taxamt: 36000
Enter value for state: M.H.
old   1: insert into Tax values(&eid,'&ename', &deptid, '&deptname', &taxamt, '&state')
new   1: insert into Tax values(5,'Atharva', 105, 'Education', 36000, 'M.H.')

1 row created.

SQL> select * from Tax PARTITION(P1);

       EID ENAME          DEPTID DEPTNAME            TAXAMT STATE
---------- ---------- ---------- --------------- ---------- ----------
         1 Devendra          101 HR                  15000 Himachal

SQL> select * from Tax PARTITION(P2);

       EID ENAME          DEPTID DEPTNAME            TAXAMT STATE
---------- ---------- ---------- --------------- ---------- ----------
         2 Dhruv             102 Coder               20000 M.P.
         3 Om                103 Purchase            25000 C.G.

SQL> select * from Tax PARTITION(P3);

       EID ENAME          DEPTID DEPTNAME            TAXAMT STATE
---------- ---------- ---------- --------------- ---------- ----------
         4 Prachi            104 Sales               45000 U.P.
         5 Atharva           105 Education           36000 M.H.


SQL> update tax set taxamt=30000 where deptname='purchase';

0 rows updated.


SQL> ALTER TABLE tax RENAME PARTITION p1 TO p1_new;

Table altered.
```

```
SQL> select ename from tax where taxamt>30000;

ENAME
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Prachi
Atharva
```