DBMS LAB FILE

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Class:- BCA AI&ML IB

Title: CREATION OF TABLE

1.create a table called Employee with the following structure:

```
create table Employee(Emp_No number primary key, Ename varchar(30), Job varchar(30), Mgr
number, Salary number);
```

1. a. Add a column commission with domain to the Employee table.

```
alter table Employee add Commission number;
```

b. Insert any five records into the table.

```
insert into Employee values(01,'Arjun','Software Tester',100,120000);
insert into Employee values(02,'Meera','System Analyst',200,220000);
insert into Employee values(03,'Vikram','Full Stack Developer',300,320000);
insert into Employee values(04,'Nisha','Data Scientist',400,420000);
insert into Employee values(05,'Dev','Project Manager',500,520000);
```

c. Update the column details of job.

```
update Employee set Job='Frontend Developer' where Ename='Vikram';
```

d. Rename the column of Employ table using alter command.

```
alter table Employee rename column Emp_No to E_No;
```

e. Delete the employee whose empno is 19.

```
delete from Employee where E_No=19;
```

FINAL OUTPUT:-

Output

E_No	Ename	Job	Mgr	Salary	Commission
1	Arjun	Software Tester	100	120000	
2	Meera	System Analyst	200	220000	
3	Vikram	Frontend Developer	300	320000	
4	Nisha	Data Scientist	400	420000	
5	Dev	Project Manager	500	520000	

Q2 create department table with following structure.

```
create table Department(Deptno number primary key, Deptname varchar2(20),Location
varchar2(20));
```

a.dd column designation to the department table.

```
alter table Department add Designation varchar2(20);
```

b. Insert values into the values

```
insert into Department values(1, 'HR', 'New York', 'Manager');
insert into Department values(2, 'IT', 'San Francisco', 'Engineer');
insert into Department values(3, 'Sales', 'Chicago', 'Executive');
insert into Department values(4, 'Marketing', 'Los Angeles', 'Coordinator');
insert into Department values(5, 'Finance', 'Boston', 'Analyst');
```

c.List the records of emp table grouped table.

5	Finance	Boston	Analyst

d.Update the record where deptno is 9.

```
update Department set Location = 'Remote' where Deptno = 9;
```

e.Delete any column data from table.

```
alter table Department drop column Designation;
```

FINAL OUTPUT :-

Deptno	Deptname	Location
1	HR	New York
2	IT	San Francisco
3	Sales	Chicago
4	Marketing	Los Angeles
5	Finance	Boston

Q3. Create a table called customer table .

```sql
create table Customer ( Cust_name varchar2(20), Cust_street varchar2(20),Cust_city
varchar2(20));
```

a. Insert records into the table.

```sql
insert into Customer values('John', 'Wall Street', 'New York');
insert into Customer values('Ravi', 'MG Road', 'Mumbai');
insert into Customer values('Sara', 'Park Avenue', 'Los Angeles');
insert into Customer values('Meena', 'Brigade Road', 'Bangalore');
insert into Customer values('Kiran', 'Market Street', 'Hyderabad');
```

b. Add a salary column to the table.

```sql
alter table Customer add Salary number;
```

c. Alter the table column domain.

```sql
alter table Customer modify (Cust_street varchar2(50));
```

d. Drop salary column of the customer table.

```sql
alter table Customer drop column Salary;
```

e. Delete the rows of customer table whose cust_city is 'hyd'.

```sql
delete from Customer where Cust_city = 'Hyderabad';
```

FINAL OUTPUT:-

Cust_name	Cust_street	Cust_city
John	Wall Street	New York
Ravi	MG Road	Mumbai
Sara	Park Avenue	Los Angeles
Meena	Brigade Road	Bangalore

Q4. Create a table called branch table?

```
create table Branch (Branch_name varchar2(20), Branch_city varchar2(20),Assets number);
```

a. Increase the size of data type for asserts to the branch.

```
alter table Branch modify Assets number(10);
```

b. Add and drop a column to the branch table.

```
alter table Branch add Established_Year number;
alter table Branch drop column Established_Year;
```

c. Insert values into the table.

```
insert into Branch values('Downtown', 'New York', 500000);
insert into Branch values('Uptown', 'Chicago', 300000);
insert into Branch values('Central', 'Los Angeles', 700000);
insert into Branch values('Suburban', 'San Francisco', 400000);
insert into Branch values('Industrial', 'Dallas', 600000);
```

d. Update the branch name column.

```
update Branch set Branch_name = 'Metro' where Branch_name = 'Downtown';
```

e. Delete any two columns from the table.

```
alter table Branch drop column Branch_city;
alter table Branch drop column Assets;
```

FINAL OUTPUT :-

Branch_name
Metro
Uptown
Central
Suburban
Industrial

Q5. Create a table called sailor table ?

```
CREATE TABLE sailor (Sid NUMBER,Sname VARCHAR2(20),rating VARCHAR2(20));
```

a. Add column age to the sailor table.

```
ALTER TABLE sailor ADD age NUMBER;
```

b. Insert values into the sailor table.

```
INSERT INTO sailor VALUES (1, 'John', '7', 25);
INSERT INTO sailor VALUES (2, 'Robert','8',20);
INSERT INTO sailor VALUES (2, 'Mike', '9', 30);
```

c. Delete the row with rating > 8.

```
DELETE FROM sailor WHERE rating > 8;
```

d. Update the column details of sailor.

```
UPDATE sailor SET Sname = 'David' WHERE Sid = 1;
```

e.. Insert null values into the table.

```
INSERT INTO sailor VALUES (3, NULL, NULL, NULL);
```

FINAL OUTPUT :-

Sid	Sname	rating	age
1	David	7	25
2	Robert	8	20
3			

Q6. create a tabled reserves table ?

```
CREATE TABLE reserves (Boat_id INTEGER,Sid INTEGER,day INTEGER);
```

a.Insert values into the reserves table.

```
INSERT INTO reserves (Boat_id, Sid, day) VALUES (101, 1, 12);
INSERT INTO reserves (Boat_id, Sid, day) VALUES (102, 2, 15);
```

b. Add column time to the reserves table.

```
ALTER TABLE reserves ADD time VARCHAR2(20);
```

c. Alter the column day data type to DATE.

```
ALTER TABLE reserves MODIFY day DATE;
```

d. Drop the column time in the table.

```
ALTER TABLE reserves DROP COLUMN time;
```

e. Delete the row of the table with some condition.

```
DELETE FROM reserves WHERE Boat_id = 101;
```

FINAL OUTPUT :-

Boat_id	Sid	day
102	2	15