# **DBMS Practical File**

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Q1) Create a table called Employee with the following structure.

Name	Type	
Empno	Number	
Ename	Varchar2(20)	
Job	Varchar2(20)	
Mgr	Number	
Sal	Number	

- 1. Add a column commission with domain to the employee table.
- 2. Insert any five records into the table.
- 3. Update the column details of job.
- 4. Rename the column of Employ table using alter command.
- 5. Delete the employee whose Empno is 19.

## Input -

```
1 V CREATE TABLE Employee (
2 Empno NUMBER PRIMARY KEY,
3 Ename VARCHAR2(20),
4 Job VARCHAR2(20),
5 Mgr NUMBER,
6 Sal NUMBER,
6 Sal NUMBER
7 );
8 V ALTER TABLE Employee
9 ADD commission NUMBER;
10 INSERT INTO Employee (Empno, Ename, Job, Mgr, Sal, commission) VALUES (1, 'John', 'Manager', NULL, 59000, 500);
11 INSERT INTO Employee (Empno, Ename, Job, Mgr, Sal, commission) VALUES (2, 'Jane', 'Clerk', 1, 30000, 300);
12 INSERT INTO Employee (Empno, Ename, Job, Mgr, Sal, commission) VALUES (3, 'Jim', 'Analyst', 1, 40000, 400);
13 INSERT INTO Employee (Empno, Ename, Job, Mgr, Sal, commission) VALUES (4, 'Jill', 'Sales', 1, 45000, 450);
14 INSERT INTO Employee (Empno, Ename, Job, Mgr, Sal, commission) VALUES (5, 'Jack', 'Engineer', 1, 35000, 350);
15 V UPDATE Employee
16 SET Job = 'Senior Clerk'
17 WHERE Empno = 2;
18 V ALTER TABLE Employee
19 RENAME COLUMN Ename TO Employee_Name;
20 DELETE FROM Employee
21 WHERE Empno = 19;
```

## OutPut -

EMPNO	EMPLOYEE_NAME	ЗОВ	MGR	SAL	COMMISSION
1	John	Manager		50000	500
2	Jane	Senior Clerk	1	30000	300
3	Jim	Analyst	1	40000	400
4	Jill	Sales	1	45000	450
5	Jack	Engineer	1	35000	350

Q2) Create department table with the following structure.

Name	Туре	
Deptno	Number	
Deptname	Varchar2(20)	
Location	Varchar2(20)	

- 1. Add column designation to the department table.
- 2. Insert values into the table.
- 3. List the records of emp table grouped by deptno
- 4. Update the record where deptno is 9
- 5. Delete any column data from the table

# Input -

```
Deptno NUMBER PRIMARY KEY,
Deptname VARCHAR2(20),
Location VARCHAR2(20),
Location VARCHAR2(20)

Nicoation VARCHAR2(20)

Nicoation VARCHAR2(20);
NSERT INTO Department
ADD designation VARCHAR2(20);
NSERT INTO Department (Deptno, Deptname, location, designation) VALUES (1, 'HR', 'New York', 'Manager');
NSERT INTO Department (Deptno, Deptname, location, designation) VALUES (2, 'Finance', 'Chicago', 'Analyst');
NSERT INTO Department (Deptno, Deptname, location, designation) VALUES (3, 'IT', 'San Francisco', 'Engineer');
NSERT INTO Department (Deptno, Deptname, location, designation) VALUES (4, 'Marketing', 'Los Angeles', 'Sales');
NSERT INTO Department (Deptno, Deptname, location, designation) VALUES (5, 'Support', 'Houston', 'Support');
NSERT INTO Department (Deptno, COUNT(*) AS Employee_Count
FROM Employee
GROUP BY Deptno;
UPDATE Department
SET Deptname = 'New Department', location = 'New Location'
WHERE Deptno = 9;
WHERE Deptno = 9;
NATER TABLE Department
DROP COLUMN designation;
```

### OutPut -

DEPTNO	DEPTNAME	LOCATION
1	HR	New York
2	Finance	Chicago
3	IT	San Francisco
4	Marketing	Los Angeles
5	Support	Houston

#### Q3) Create a table called customer table

Name	Туре	
Cust name	Varchar2(20)	
Cust Street	Varchar2(20)	
Cust city	Varchar2(20)	

- 1. Insert records into the table
- 2. Add salary column to the table.

- 3. Alter the table column domain.
- 4. Drop salary column of the customer table.
- 5. Delete the rows of customer table whose cust city is "hyd'.

## Input -

### OutPut -

CUST_NAME	CUST_STREET	CUST_CITY
Alice	Maple Street	NYC
Bob	Pine Avenue	LA
Charlie	Oak Road	Houston

#### Q4) Create a table called branch table

Name	Туре	
Branch name	Varchar2(20)	
Branch city	Varchar2(20)	
asserts	Number	

- 1. Increase the size of data type for asserts to the branch.
- 2. Add and drop a column to the branch table
- 3. Insert values to the table
- 4. Update the branch name column
- 5. Delete any two columns from the table

## Input -

```
1 v CREATE TABLE Branch (
        Branch_name VARCHAR2(20),
        Branch_city VARCHAR2(20),
        assets NUMBER
6 v ALTER TABLE Branch
7 MODIFY assets NUMBER(10, 2);
8 v ALTER TABLE Branch
9 ADD Branch_code VARCHAR2(10);
10
11 v ALTER TABLE Branch
12 DROP COLUMN Branch_code;
13 INSERT INTO Branch (Branch_name, Branch_city, assets) VALUES ('Main', 'NYC', 100000);
14 INSERT INTO Branch (Branch_name, Branch_city, assets) VALUES ('East', 'LA', 75000);
15 INSERT INTO Branch (Branch_name, Branch_city, assets) VALUES ('West', 'Houston', 50000);
16 INSERT INTO Branch (Branch_name, Branch_city, assets) VALUES ('South', 'Chicago', 45000);
17 INSERT INTO Branch (Branch_name, Branch_city, assets) VALUES ('North', 'Miami', 30000);
18 <sub>v</sub> UPDATE Branch
19 SET Branch name = 'Central'
20 WHERE Branch name = 'Main';
21 v ALTER TABLE Branch
22 DROP COLUMN Branch_city;
24 , ALTER TABLE Branch
25 DROP COLUMN assets;
26 select * from Branch;
```

### OutPut -



Q5) Create a table called sailor table

NAME	ТҮРЕ	
sID	Number	
Sname	Varchar2(20)	
rating	Varchar2(20)	

- 1. Add column age to the sailor table.
- 2. Insert values into the sailor table.
- 3. Delete the row with rating >8.
- 4. Update the column details of sailor.
- 5. Insert null values into the table.

# Input -

```
1 v CREATE TABLE sailor (
        Sid NUMBER,
        Sname VARCHAR2(20),
        rating VARCHAR2(20)
 6 v ALTER TABLE sailor
 7 ADD age NUMBER;
 8 , INSERT INTO sailor (Sid, Sname, rating, age)
   VALUES (1, 'John Doe', '7', 25);
11 v INSERT INTO sailor (Sid, Sname, rating, age)
12 VALUES (2, 'Jane Smith', '9', 30);
13 v DELETE FROM sailor
14 WHERE TO_NUMBER(rating) > 8;
15 v UPDATE sailor
16 SET Sname = 'New Name', rating = '6', age = 28
17 WHERE Sid = 1;
18 v INSERT INTO sailor (Sid, Sname, rating, age)
19 VALUES (3, NULL, NULL, NULL);
```

### OutPut -

SID	SNAME	RATING	AGE
1	New Name	6	28
3			

Q6) Create a table called reserves table

NAME	ТҮРЕ
Boat id	Integer
sid	Integer
day	Integer

1. Insert values into the reserves table.

- 2. Add column time to the reserves table.
- 3. Alter the column day data type to date.
- 4. Drop the column time in the table.
- 5. Delete the row of the table with some condition.

## Input -

```
1 v CREATE TABLE reserves (
        "Boat id" INTEGER,
       sid INTEGER,
        day INTEGER
6 v INSERT INTO reserves ("Boat id", sid, day)
 7 VALUES (101, 1, 20220101);
9 v INSERT INTO reserves ("Boat id", sid, day)
10 VALUES (102, 2, 20220102);
11 , ALTER TABLE reserves
12 ADD time VARCHAR2(10);
13 v ALTER TABLE reserves
14 MODIFY day DATE;
15 , ALTER TABLE reserves
16 DROP COLUMN time;
17 v DELETE FROM reserves
18 WHERE sid = 1;
```

### OutPut -

Boat id	SID	DAY
102	2	20220102