

PRACTICAL EXAM-ANSWER SHEET

Enrollment Number : EC2431201010114

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Date : 04/12/2024

Subject Code : V20UDS203

Subject : Data Base System

Title : 5. Department Table

Aim :

To perform a series of database operations related to a Department table. These operations includes add a column, insert values in the table , list the records group by deptno , updating an record and deleting an data from the table.

Procedure :

1. Add a column Designation to the department Table :
Add a new column called designation to the Department Table.
2. Inserting values into the Department Table :
Insert values in the columns assigned to department table with include newly added designation column.
3. List the records grouped by Deptno :
Group the records of the department table by Deptno and need to return the result.
4. Update the record where Deptno is 9 :
Update the record in the department table where the deotno is 9.
5. Delete any column data :
Delete any one of the column from the department table.

Program :

create table Department

(Deptno int,

Deptname varchar(50),

Location varchar(50));

```

/*Adding an new column to the table*/
alter table Department add designation varchar(50);

/*inserting values in to the Department table */
insert into Department (Deptno , Deptname , Location , designation)
values (01, "IT", "Chennai","Team Leader"),
(02, "Hr", "Chennai","Manager"),
(04, "Sales", "Chennai","Trainee"),
(07, "Service", "Chennai","Engineer"),
(09, "Accounts", "Chennai","Manager");

/*List the table department group by deptno */
select "Grouping the table by Deptno";
select Deptno , count(*) as Records from Department
group by Deptno;

/*Updating the record where Deptno number is 9 */
select * from Department;
update Department
set designation = "Depute-Manager"
where Deptno = 09;
select "Before Deleting the column and updating the record";

/*Deleting an column from the department table */
alter table Department drop column Location;
select "After Deleting the column Location";
select * from Department;

```

OutPut :

```

+-----+
| Grouping the table by Deptno |
+-----+
| Grouping the table by Deptno |
+-----+
+-----+
| Deptno | Records |
+-----+
| 1 | 1 |
| 2 | 1 |
| 4 | 1 |
| 7 | 1 |
| 9 | 1 |
+-----+
+-----+
| Deptno | Deptname | Location | designation |
+-----+
| 1 | IT | Chennai | Team Leader |
| 2 | Hr | Chennai | Manager |
| 4 | Sales | Chennai | Trainee |
| 7 | Service | Chennai | Engineer |
| 9 | Accounts | Chennai | Manager |
+-----+
+-----+
| Before Deleting the column and updating the record |
+-----+
| Before Deleting the column and updating the record |
+-----+
+-----+
| After Deleting the column Location |
+-----+
| After Deleting the column Location |
+-----+
+-----+
| Deptno | Deptname | designation |
+-----+
| 1 | IT | Team Leader |
| 2 | Hr | Manager |
| 4 | Sales | Trainee |
| 7 | Service | Engineer |
| 9 | Accounts | Depute-Manager |
+-----+

```

Result :

1. Adding column:
The designation column in to table is added successfully.
2. Inserting Records :
Five department records are added to the table successfully.
3. Grouped Records :

The records will be grouped by the deptno as per the give problem statement.

4. Updating record :

In department table deptno = 9 record designation has been updated.

5. Deleting column Data :

In department Table Location column data has been deleted successfully as per the problem statement.