SQL Essentials

Certification Project Certification Project

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Problem Statement: Execute the following set of queries

DATA DEFINITION LANGUAGE (DDL)

AIM: Create a database to implement DDL basic commands using the Employee database as given below.

1. Create department table with following columns.

Dept_id -- Data Type: Integer Primary key,

D_Name -- Data Type: NVARCHAR (100) Not null,

Contact_no -- Data Type: Integer Unique

2. Create employee table with following columns

Emp_id -- Data Type: Integer (Primary Key),
Dept_id -- Data Type: Integer (Foreign Key),

Emp_name -- Data Type: NVARCHAR (100), Designation -- Data Type: NVARCHAR (100)

Salary -- Data Type: Money

3. ADD A NEW CLOUMN IN DEPARTMENT TABLE

Column - City

Data Type - NVARCHAR (50)

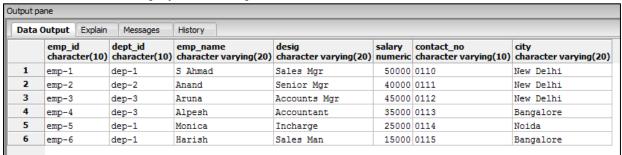
- 4. CHANGE THE DATATYPE OF SALARY TO CHAR(10) IN EMPLOYEE Data Type: Change from Money to Char (10);
- 5. DELETE THE 'CITY' COLUMN FROM THE DEPARTMENT TABLE

Column: City

6. RENAME A COLUMN(D_NAME) IN DEPARTENT TABLE to (Dept_NAME)

DATA MANIPULATION LANGUAGE (DML)

Insert Values in employee table as per table below.



- 7. Update the Contact_No of employee who stays in 'Bangalore' and id = 6
- 8. Select given selective columns from employee table.

EMP_ID EMP_NAME DESIG

- 9. Select all details of employee whose salary is greater than 30000.
- 10. Select details of employee whose salary is between 15000 and 30000
- 11. Select * from employee who lives in 'Bangalore' or 'New Delhi'
- 12. Select * from employee who do not stay in cities 'Bangalore' and 'New Delhi'
- 13. Select details of employee whose name starts with character 'A'
- 14. Arrange the details of employee in descending order of their salary.
- 15. Retrieve the average salary of employee per department.
- 16. Get the details of Employee(dept_id, Salary) and its average salary whose average salary is greater than 30000

JOINS, STORED PROCEDURE AND VIEW

AIM: Create a Company and a Dept Database and solve the various join operations.

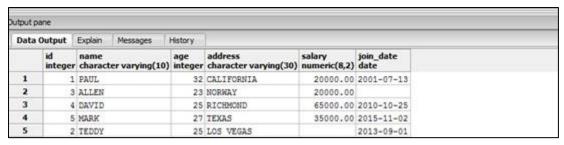
Step1. Create Company Table

Columns

a. Emp_id – Data Type Integer
 Name NVARCHAR (50),
 Age – Data Type: Integer,
 Address – Data Type: NVARCHAR (50),
 Salary – Data Type: Numeric (8, 2),

Join date - Date Type: Date)

Step2. Insert below data in Company Table.



Step3. Create Dept Table

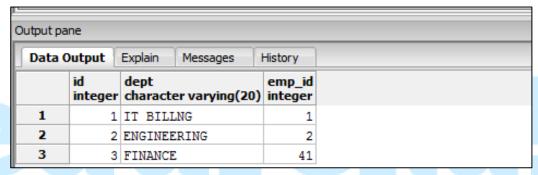
Columns

a. Id - Data Type: Integer,

b. Dept -- Data Type: NVARCHAR(20)

c. emp_id - Data Type: Integer

Step4. Insert below data in dept table



17. Query1. Fetch following details for employee with id = 2

Emp_Id

Name

Dept

Dept_Id

Age

Salary

18. Create a stored procedure to fetch following columns from Company and Dept2 table based on a given emp id.

Emp_Id

Name

Dept.

Dep_Id,

Age

Salary

19. Create a view to fetch the details of employee with following columns

Emp_Id

Name

Dept,

Dep_Id,

Age

Salary

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