SQL Assessment

1)

CREATE TABLE STUDENT AS SELECT \* FROM Student\_Data;

2)

CREATE TABLE Student AS SELECT \* FROM Student\_Data WHERE ‘A’=’B’;

3)

a) SELECT TOP 10 \* FROM Student;

b) SELECT Emp\_id, Name, MAX(Salary) AS MaxSalary, MIN(Salary) as MinSalary from Employee;

4)

CREATE Table Customers(

UserID Int,

CustomerName VARCHAR(255),

TransactionID Int,

TransactionAmount Int,

TransactionDate DATE

)

user transaction template= '''

   select

   user id

    ,count(\*) as num transactions

    ,sum(amount) as total amount

    from

      transactions

  where user id = 1234  and transaction date = '2022-03-02'

    group by user id

 params = {

    'user id': 1234,

     "transaction date': '2022-03-02'

}

j=JinjaSq1(param\_style='pyformat')

query,bind params=j.prepare\_query(user transaction template, params)

print(query)

5)

SELECT \* FROM Department WHERE FirstName LIKE ‘P%’ AND Surname LIKE ‘S%’;

6)

SELECT TOP 1 \* FROM Student ORDER BY Name DESC;

7)

CREATE TABLE Employees(

    EmployeeID int NOT NULL PRIMARY KEY,

    FirstName varchar(50) NOT NULL,

    LastName varchar(50) NOT NULL,

    ManagerID int NULL

)

INSERT INTO Employees VALUES(1,'Siddhant','Sharma',NULL)

INSERT INTO Employees VALUES(2,'Sri','Harsha',1)

INSERT INTO Employees VALUES(3,'Antrixsh','gupta',1)

INSERT INTO Employees VALUES(4,'Prajakta','Sharma',2)

INSERT INTO Employees VALUES(5,'Govind','Kumar',2)

INSERT INTO Employees VALUES(6,'Bhargav','Kumar',3)

INSERT INTO Employees VALUES(7,'Nirupama','Ponnapudi',3)

INSERT INTO Employees VALUES(8,'Amogh','Kumar',5)

INSERT INTO Employees VALUES(9,'Vikas','Goyal',6)

INSERT INTO Employees VALUES(10,'Naga','Sowmya',6)

--select \*from Employees;

WITH

    cteReports(EmpID, FirstName, LastName, MgrID, EmpLevel)

    AS

    (

        SELECT EmployeeID, FirstName, LastName, ManagerID,1

        From Employees

        Where ManagerID is NULL

        UNION ALL

        SELECT e.EmployeeID, e.FirstName, e.LastName, e.ManagerID, r.EmpLevel + 1

        FROM Employees e

            INNER JOIN cteReports r

            ON e.ManagerID = r.EmpID

    )

    SELECT

        FirstName + ' ' + LastName AS FullName,

        EmpLevel,

        (Select FirstName + ' ' + LastName AS FullName FROM Employees

            WHERE EmployeeID = cteReports.MgrID) AS ManagerID

            From cteReports

            Order BY EmpLevel,MgrID

8)

a) UPDATE Student.Surname SET Surname = ‘Sunny’ Where ID = 1;

b) DELETE FROM STUDENT WHERE ID = 2;