**Q1. WHAT ARE THE CONDITIONS TO DEFINE A FOREIGN KEY ON A TABLE?**

Table should have a Candidate Key (Primary Key or Unique Key)

Parent Table and Child Table should have same data type

**Q2. GIVEN A TABLE, HOW DO YOU FIND THE NUMBER OF FOREIGN KEYS? LIST ALL POSSIBLE OPTIONS.**

Option 1:

select \* from sys.objects

Option 2:

Expand Tables from SSMS Object Explorer > Keys > We see Foreign Keys

**Q3. CAN WE DEFINE PRIMARY KEY ON CHARACTER COLUMNS?**

YES

CREATE TABLE empDetails

(

EmpName varchar(30) primary key,

EmpManagername varchar(30)

)

**Q4:**

**CREATE TABLE empDetails**

**(**

**EmpID int PRIMARY KEY,**

**EmpName varchar(30),**

**EmpManagerID int REFERENCES empDetails(EmpID)**

**)**

TASK 1: WRITE A QUERY TO REPORT LIST OF EMPLOYEES AND THEIR MANAGERS?

SELECT \* FROM empDetails AS E1

INNER JOIN

empDetails AS E2

ON

E1.EmpManagerID = E2.EmpID

TASK 2: HOW TO REPORT LIST OF ALL EMPLOYEES WHOSE MANAGER IS JOHN?

SELECT \* FROM empDetails AS E1

INNER JOIN

empDetails AS E2

ON

E1.EmpManagerID = E2.EmpID

WHERE

E2.EmpName = 'JOHN'

TASK 3: HOW TO REPORT LIST OF ALL EMPLOYEES FOR A GIVEN MANAGER?

IN THIS CASE, MANAGER NAME IS GIVEN AT RUN TIME.

CREATE PROCEDURE USP\_REPORT\_EMPLOYEES (@mname varchar(30))

AS

SELECT \* FROM empDetails AS E1

INNER JOIN

empDetails AS E2

N

E1.EmpManagerID = E2.EmpID

WHERE

E2.EmpName = @mname