**Question 1:**

**Put True (√) or False (X) for each of the following statement**

**[15 Statements 15 marks]**

1. **SQL command is Case sensitive. ( X )**
2. **You can use where with truncate command. ( X )**
3. **You can define Global variable in SQL. ( X )**
4. **DDL means Create, Alter and drop for objects. ( √ )**
5. **Benefits Primary key for column not allow NULL and no duplicate values.( √ )**
6. **You can select all columns with use group by one column. ( √ )**
7. **View is virtual table. ( √ )**
8. **You can write insert or update statement for create view. ( X )**
9. **You can create view from another view. ( √ )**
10. **You can use order by to create view. ( X )**
11. **You can pass parameters to View**. ( **X**  )
12. **You can pass default value to parameter in procedure. ( √ )**
13. **SQL provides five built-in functions: COUNT, SUM, AVG, MAX, MIN.( √ )**
14. **Function can return table. ( √ )**
15. **Transaction is one unit during executing. ( √ )**

**Question 2:**

**Choose the right answer [10 Statements 10 marks]**

1. **You can add a row using SQL in database with which of the following?**

a-**Add** b- Create c- Insert d-Make

1. **You have a table named Employee that includes four columns. You execute thefollowingstatement:SELECT \* FROM Employee**

**Which columns are returned?**

a**- All columns** b- Only the first column c- Only the last column d-Only the first and last columns

1. **One reason to create a stored procedure is to:**

a**- Improve performance** b-. Minimize storage space

1. **One difference between a function and a stored procedure is that a function:**

a- **Must return a value** b- Cannot accept parameters c- Cannot contain a transaction

1. **DML :**

a-Create b-**Insert** c-Deny

1. **To determine for identity start number from 10 then add one in the next.**

a-**Identity seed=10** b-Identity seed=1

1. **To set current date is default in registration date Columns what is the function used:**

a-datetime.Now b-datenow() c-**getdate()**

1. **To display all employee not have Second name:**

a-secondname=”” b-secondname=NULL c-secondname is NULL

1. **I want to display column with name SalaryCategory( high,Medium,low) I can use:**

a-Simple case b**-Searched case**

**Question 3:**

**Answer the following questions [5 statements 10 marks]**

**a- Write code. I want to know information about SQL version and edition.**

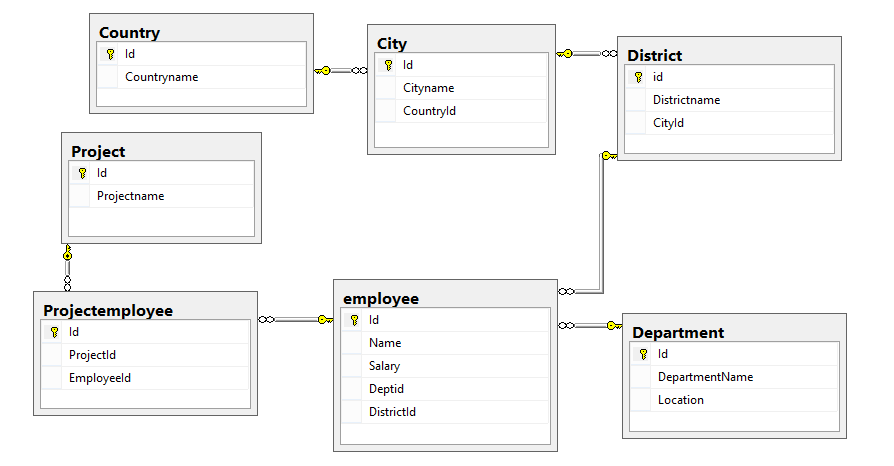
**b-Write code to insert 1000 row to country table have columns( id, Countryname ).**

**Write code to delete rows duplicated and leave only one row from these.**

1. **Write code to create function with name f\_captalize I can pass word return first character Capital only.**
2. **Tell something about System code Type and system code tables.**
3. **Tell something about what is the benefit for log data table.**

**Question 4:**

**Answer the following questions [5 statements 15 marks]**

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1. **Write code to Create view with name (display\_all\_data) to display all data to all columns in all tables?**
2. **Write code to Create Procedure with name (Country\_proc) to execute insert ,update, delete and select.**
3. **Write code to Create view with name (department\_empcount\_projectcount) to display Departmentname ,count of employees , total salary and count of projects for this department**
4. **Design Logdata table and write Structure for this table.**
5. **Create trigger on Department for insert data to Logdata after update.**

**Question 5: Bonus**

**Answer the following questions [6 statements 6 marks]**

1. **What is the difference between Primary key and unique constraint in table?**
2. **What is the difference between Clustered and non-clustered index?**
3. **What is collation in SQL?**
4. **What is the uniqueidentifier datatype in SQL?**
5. **What is SQL Azure?**