**The following relation TECHNICIAN is not in 1st Normal Form, you need to convert it into 1st Normal form.**

**TECHNICIAN**

|  |  |  |  |
| --- | --- | --- | --- |
| **Tec\_ID** | **Tec\_Name** | **Tec\_Phone** | **Tec\_City** |
| **1** | **Ahmed** | **03001122334**  **03021122335** | **Multan** |
| **2** | **Faisal** | **03000102034** | **Karachi** |
| **3** | **Nouman** | **03211234567**  **03013216547** | **Lahore** |
| **4** | **Usman** | **03133214567** | **Islamabad** |

**ANS Q1:**

|  |  |  |  |
| --- | --- | --- | --- |
| **Tec\_ID** | **Tec\_Name** | **Tec\_Phone** | **Tec\_City** |
| **1** | **Ahmed** | **03021122335** | **Multan** |
| **1** | **Ahmed** | **03001122334** | **Multan** |
| **2** | **Faisal** | **03000102034** | **Karachi** |
| **3** | **Nouman** | **03211234567** | **Lahore** |
| **3** | **Nouman** | **03211234567** | **Lahore** |
| **4** | **Usman** | **03133214567** | **Islamabad** |

**ANSQ2:**

|  |  |
| --- | --- |
| **Statement** | **SQL Command** |
| 1. Create a **table** named **Technician**. You also have to define a primary key and any foreign key relationships if applicable. | CREATE TABLE Technician (  Tec\_ID INT PRIMARY KEY,  Tec\_Name VARCHAR(50),  Tec\_Phone1 VARCHAR(15),  Tec\_Phone2 VARCHAR(15),  Tec\_City VARCHAR(50)  ); |
| 1. Insert a new record into the "**Customers**" table with the following details: CustomerID = "C001", Name = "John Doe", Email = "john.doe@example.com", Phone = "123-456-7890", and Address = "123 Elm Street, Springfield". | INSERT INTO Customers (CustomerID, Name, Email, Phone, Address)  VALUES ('C001', 'John Doe', 'john.doe@example.com', '123-456-7890', '123 Elm Street, Springfield'); |
| 1. Delete all records from the **Orders** table where the Order Date is older than January 1, 2020. | DELETE FROM Orders  WHERE OrderDate < '2020-01-01'; |
| 1. Update the "**Email**" of a customer in the "**Customers**" table with "CustomerID" = 'C002' to 'new.email@example.com'. | UPDATE Customers  SET Email = 'new.email@example.com'  WHERE CustomerID = 'C002'; |
| 1. Retrieve the "Name" and "Price" of all gadgets in the "**Gadgets**" table where the "Price" is greater than 5000. | SELECT Name, Price  FROM Gadgets  WHERE Price > 5000; |