TECHNOLOGY IN BUSINESS

Assignment

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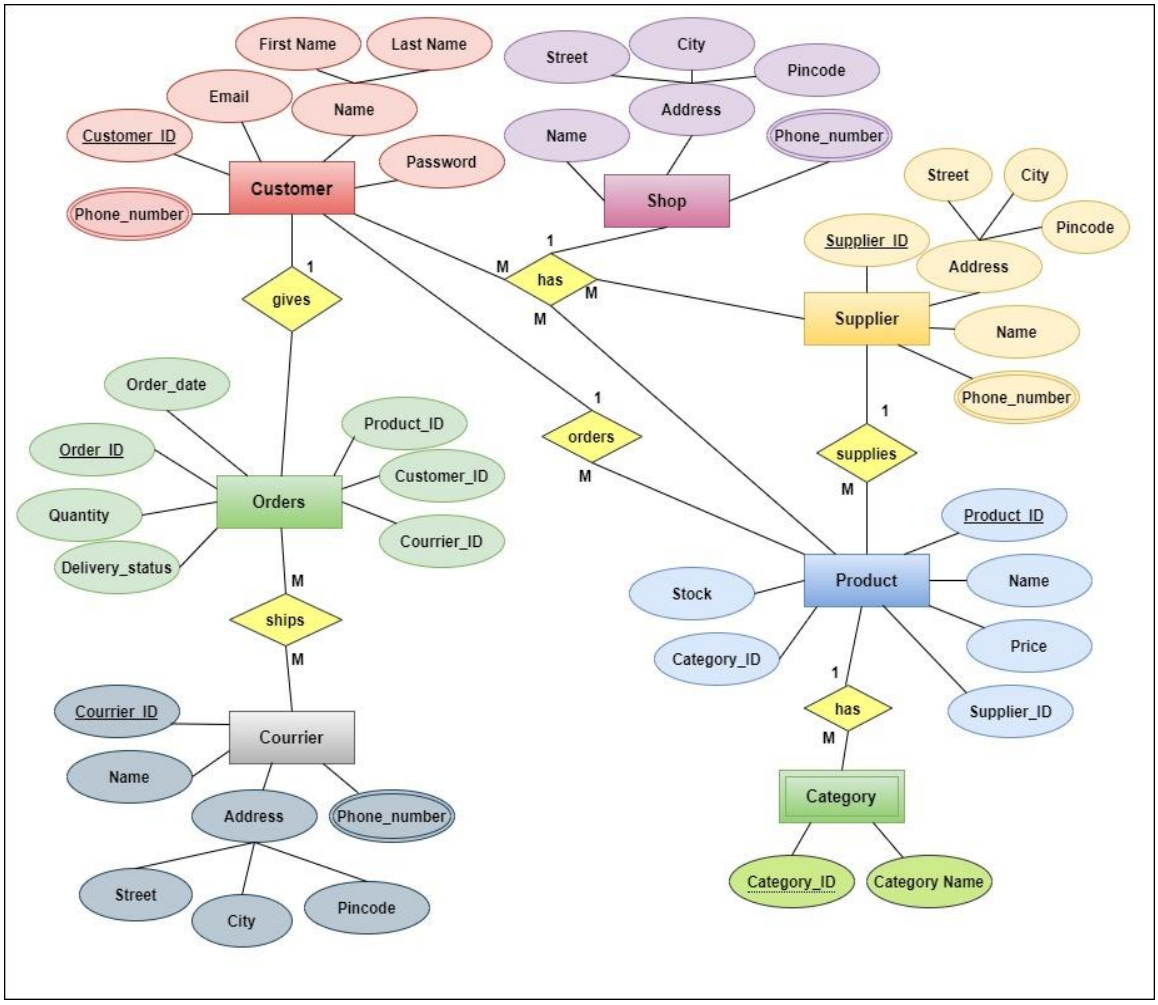
MBA-IT (Div A)

1. Consider any business (bookstore, medical, flowerist etc)
2. Give introduction of the business choosen
3. Design ER diagram
4. Create SQL tables
5. Design two input forms using VBA
6. Create two SQL queries involving clauses like groupby, sum, count etc
7. Create one stored procedure
8. A graph (pie graph, bar graph, line graph)

1) **Consider any business (bookstore, medical, floweriest etc)**
Business-Clothing Store

2) **Give introduction of the business chosen**
In a clothing store, Customers orders for a specific category of products.
Suppliers from various cities sell their product to retail shops or either to directly to customers. Suppliers supplies product despite of its various categories.
Order is delivered through Courrier and delivery status can be tracked by customers.
Customer's phone is used for giving status of delivery of product stock of product can be maintained by supplier.
Sometimes customers are from different locations.

3) **Design ER diagram**



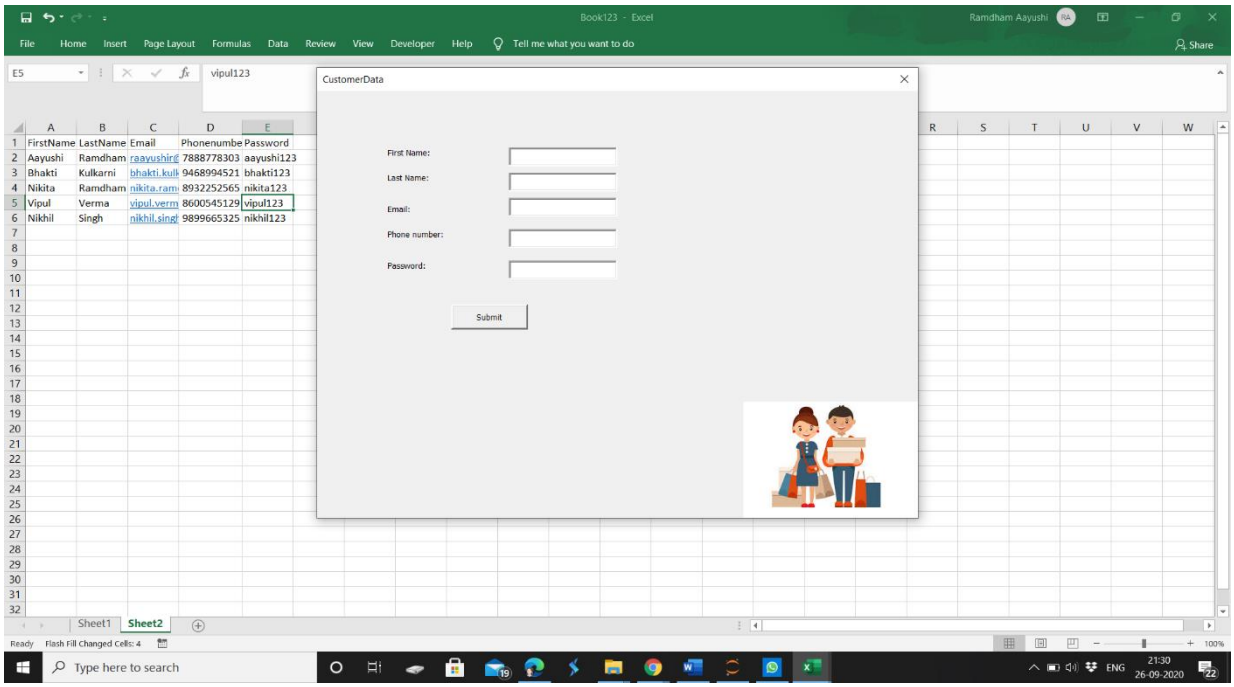
4) **Create SQL tables**

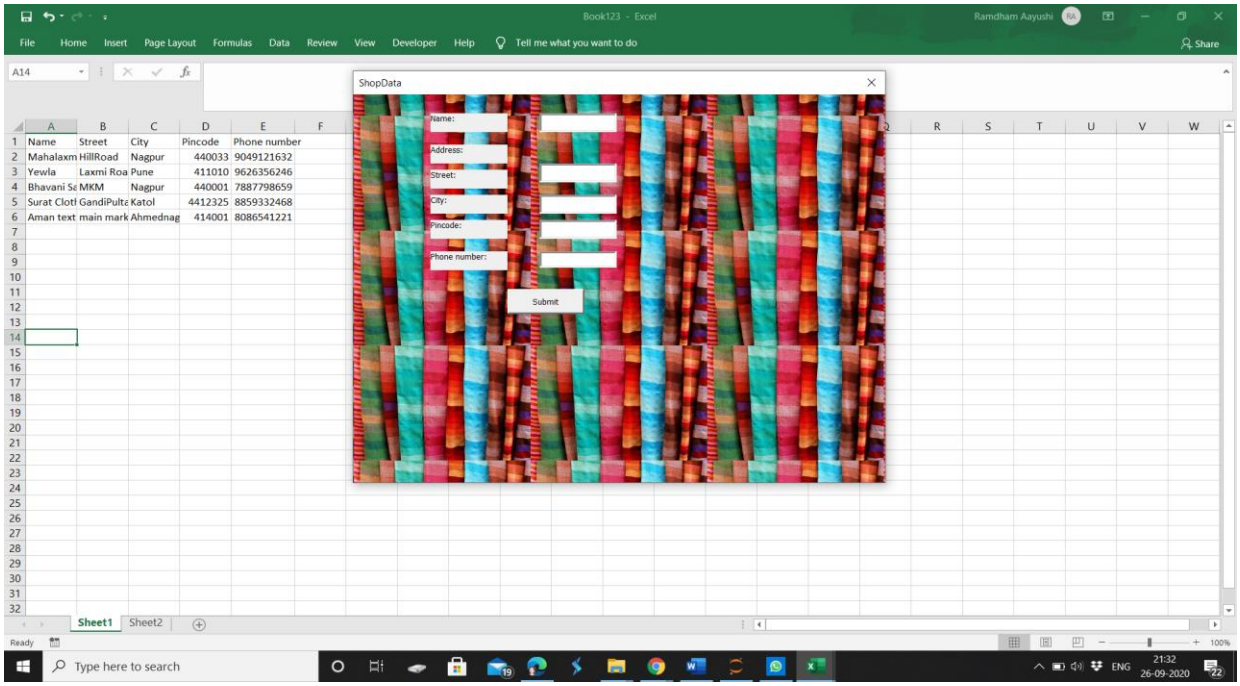
```
CREATE TABLE Customer (
    Customer_ID int NOT NULL,
    First Name varchar(255) NOT NULL,
    Second Name varchar(255) NOT NULL,
    Email varchar(255) NOT NULL,
```

```
    Password varchar(255) NOT NULL,
    Phone double NOT NULL,
    PRIMARY KEY (Customer_ID),
);

CREATE TABLE Courrier (
    Courrier_ID int NOT NULL,
    Name varchar(255) NOT NULL,
    Street varchar(255) NOT NULL,
    City varchar(255) NOT NULL,
    Pincode double NOT NULL,
    Phone double NOT NULL,
    PRIMARY KEY (Courrier_ID),
);

);
CREATE TABLE Supplier(
    Supplier_ID int NOT NULL,
    Name varchar(255) NOT NULL,
    Street varchar(255) NOT NULL,
    City varchar(255) NOT NULL,
    Pincode double NOT NULL,
    Phone double NOT NULL,
    PRIMARY KEY (Supplier_ID),
);

CREATE TABLE Category (
    Category_ID int NOT NULL,
    Category name varchar(255) NOT NULL,
);

CREATE TABLE Shop (
    Name varchar(255) NOT NULL,
    Street varchar(255) NOT NULL,
    City varchar(255) NOT NULL,
    Pincode double NOT NULL,
    Phone double NOT NULL,

 );

   CREATE TABLE Product (
       Name varchar(255) NOT NULL,
       Price float NOT NULL,
       Stock boolean NOT NULL,
       PRIMARY KEY (Order_ID),
       FOREIGN KEY (Supplier_ID) REFERENCES Supplier(Supplier_ID),
       FOREIGN KEY (Category_ID) REFERENCES Supplier(Category_ID)

   );
```

```
CREATE TABLE Orders (
    Order_ID int NOT NULL,
    Order_date date NOT NULL,
    Quantity int,
    Delivery_Status boolean NOT NULL,
    PRIMARY KEY (Order_ID),
    FOREIGN KEY (Product) REFERENCES Product(Product_ID)
    FOREIGN KEY (Customer) REFERENCES Customer(Customer_ID)
    FOREIGN KEY (Courrier) REFERENCES Courrier(Courrier_ID)
);
```

5) Design two input forms using VBA





6) **Create two SQL queries involving clauses like groupby, sum, count etc**

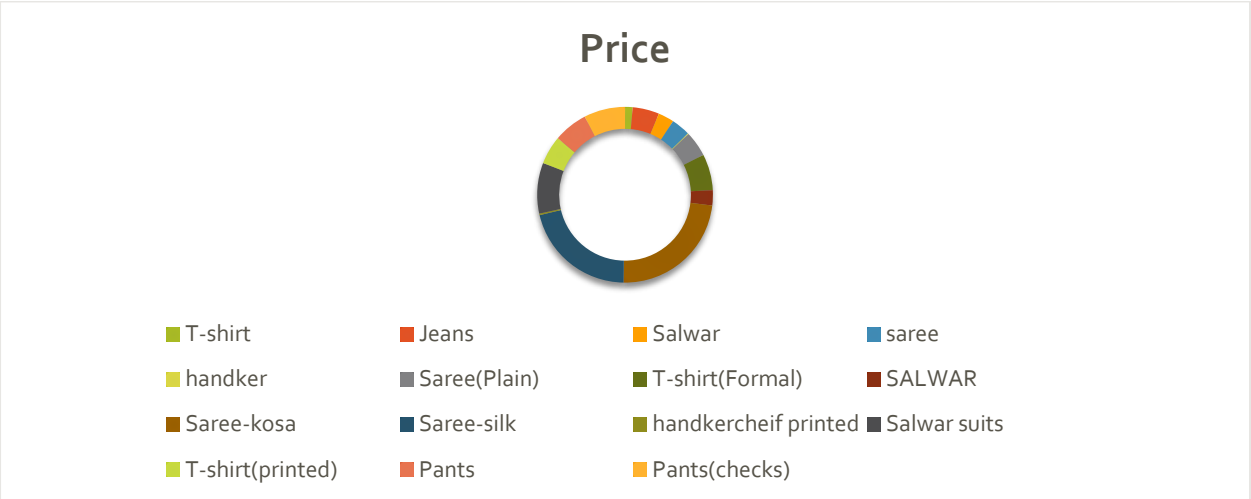
```
SELECT COUNT(Name), City
FROM Customer
GROUP BY City;

SELECT COUNT(Product_ID)
FROM Products;

SELECT SUM(Quantity)
FROM Orders;
```

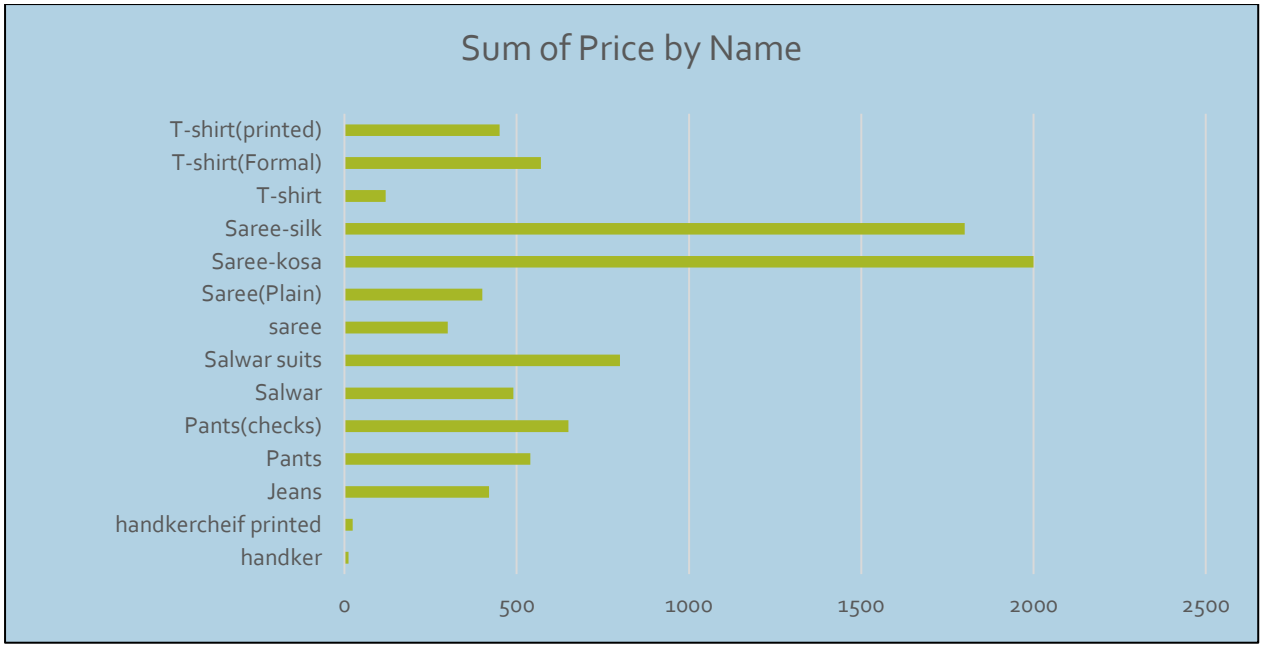
7) **Create one stored procedure**

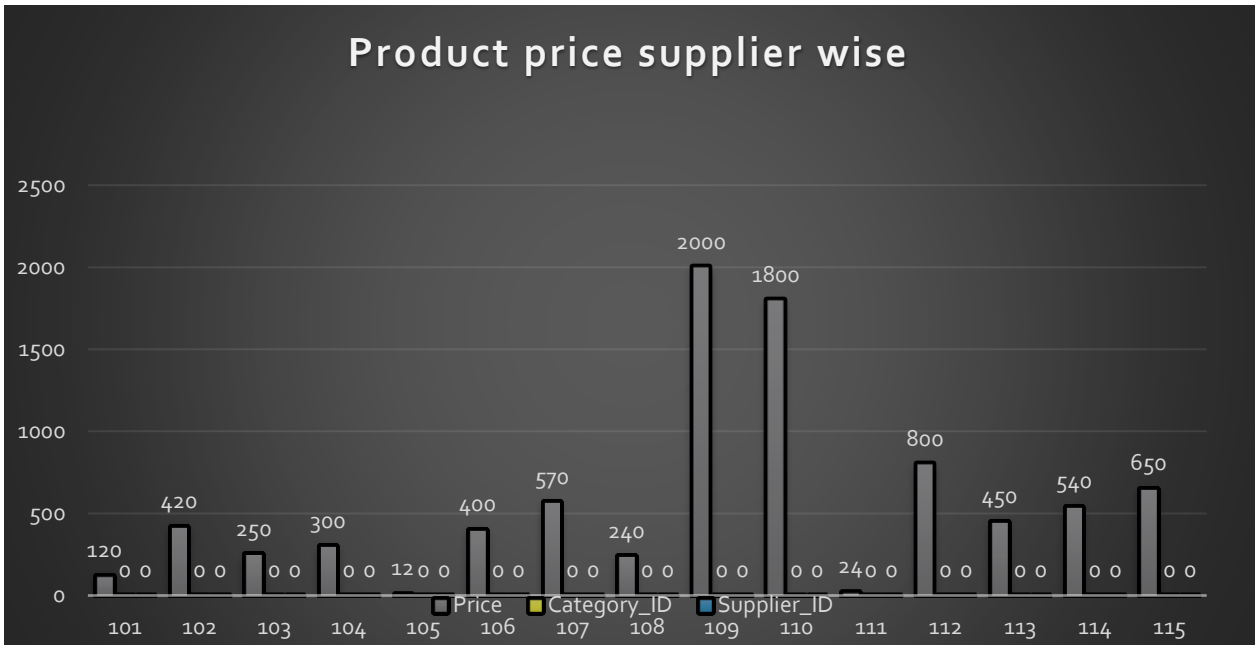
```
CREATE PROCEDURE SelectAllCourrier @City nvarchar(30), @Pincode
nvarchar(10)
AS
SELECT * FROM Courrier WHERE City = @City AND PostalCode =
@PostalCode
GO;


EXEC SelectAllCustomers @City = 'Nagpur', @Pincodeode = '440033';
```

8) **A graph (pie graph, bar graph, line graph)**

Product_ID	Name	Stock	Price	Category_	Supplier_ID
101	T-shirt	Available	120	t7p1	NAG7
102	Jeans	Not Avilab	420	j1	MD4
103	Salwar	Available	250	s01	su54
104	saree	Available	300	sj1	sur54
105	handker	Available	12	r23	NAG7
106	Saree(Plair	Available	400	sp207	Benarsi34
107	T-shirt(For	Not Avilab	570	t7p4	NAG7
108	SALWAR	Available	240	s54	ban32
109	Saree-kosa	Available	2000	sa324	ban43
110	Saree-silk	Available	1800	sa123	Pun91
111	handkerch	Not Avilab	24	r54	NAG7
112	Salwar suit	Available	800	sp2	Pun91
113	T-shirt(prir	Available	450	t7p9	MD4
114	Pants	Available	540	p90	mum90
115	Pants(chec	not Avilabl	650	p80	mum90




Sum of Price by Name
T-shirt(printed)
T-shirt(Formal)
T-shirt
Saree-silk
Saree-kosa
Saree(Plain)
saree
Salwar suits
Salwar
Pants(checks)
Pants
Jeans
handkercheif printed
handker
0
500
1000
1500
2000
2500


Product price supplier wise
2500
2000
1500
1000
500
0
120 0 0
420 0 0
250 0 0
300 0 0
12 0 0
400 0 0
570 0 0
240 0 0
2000 0 0
1800 0 0
240 0 0
800 0 0
450 0 0
540 0 0
650 0 0
Price
Category_ID
Supplier_ID
101
102
103
104
105
106
107
108
109
110
111
112
113
114
115