

CS2071
Project Report

Students Work:

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CS2071 Final Project

Project Description:

This application describes a company called **Boutique**, which sells a variety of dresses to its customers.

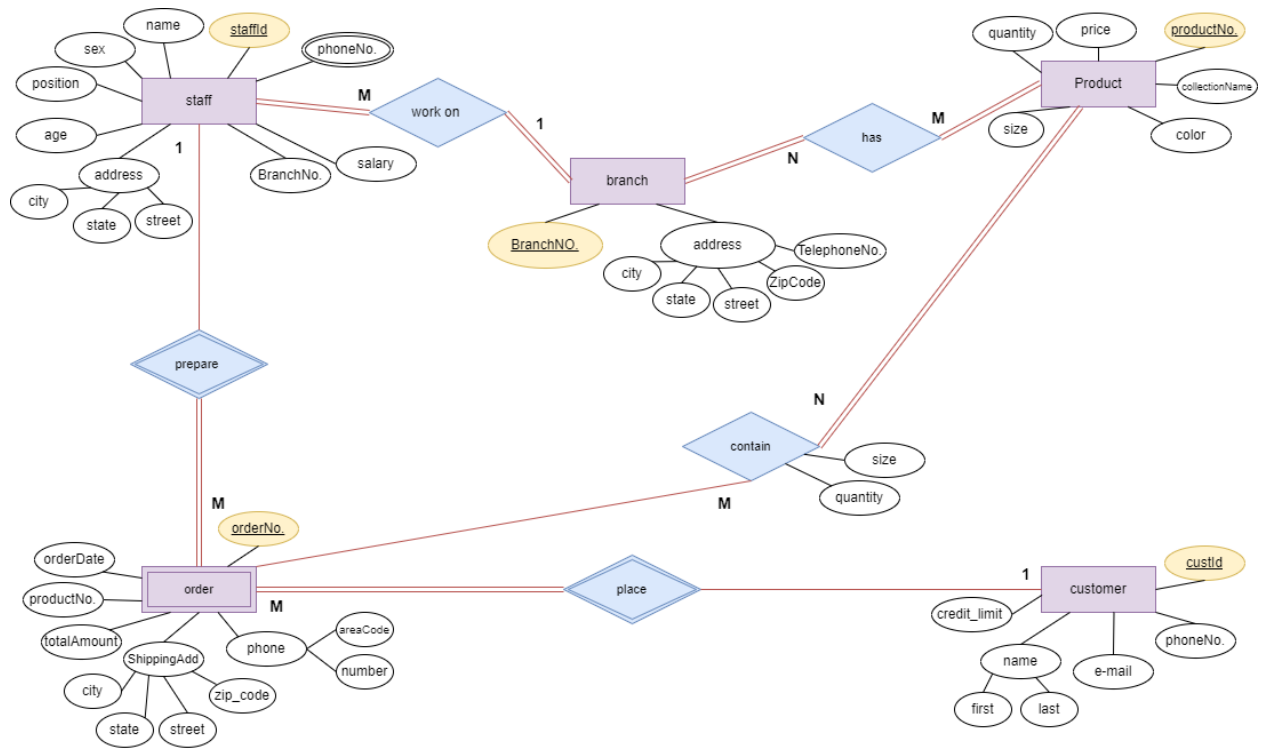
- The company has now grown and has many **branches**. The data held on a branch of Boutique is the branch address, made up of (city, state, street, and zip code, and the telephone numbers) (a maximum of 3 lines). Each branch is given a branch number, which is unique throughout the company.
- Each branch of Boutique has a **staff**, which includes a manager and several other employees. The data held on a member of staff is his or her name, id, position (manager or employee), sex, age, phone number, address made up of (city, state, and street), and the branch at which he or she works, and salary.
- Each **customer** is identified by a customer id, name (first name and last name), phone number, e-mail, and credit limit.
- Customers can buy products from branch of the Boutique directly.
- Customers can also use the Boutique app to order products.
- The staff prepares customers' orders and then ships them to the shipping address shown in the order
- Each **product** has a product number, collection name as (spring 2022), size, color, quantity available in the branch, price.
- Each **order** has an order number, date, product number, required quantity, total amount, shipping address made up of (city, state, street, and zip code), and phone (area code and number).

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ER diagram:

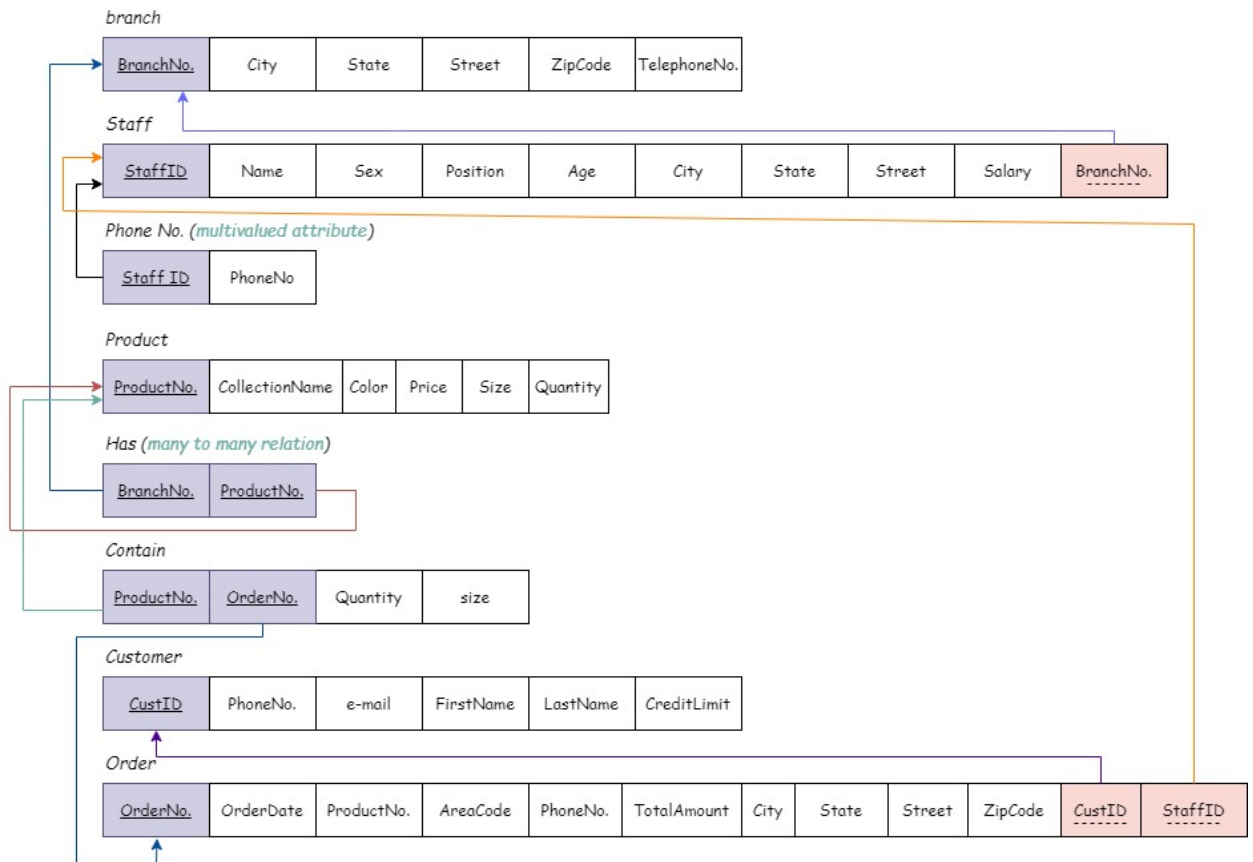


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Schema diagram:



Sql:**1. To create tables:**

```
MariaDB [Walaa]> CREATE TABLE Contain(
  -> ProductNo VARCHAR (10),
  -> OrderNo VARCHAR (10),
  -> Size VARCHAR (10),
  -> Quantity VARCHAR(10),
  -> FOREIGN KEY (ProductNo) REFERENCES Product (ProductNo),
  -> FOREIGN KEY (OrderNo) REFERENCES Purchase (OrderNo));
Query OK, 0 rows affected (0.034 sec)
```

```
MariaDB [Walaa]> SELECT * FROM Contain;
Empty set (0.004 sec)
```

```
MariaDB [Walaa]> desc Contain;
```

Field	Type	Null	Key	Default	Extra
ProductNo	varchar(10)	YES	MUL	NULL	
OrderNo	varchar(10)	YES	MUL	NULL	
Size	varchar(10)	YES		NULL	
Quantity	varchar(10)	YES		NULL	

4 rows in set (0.013 sec)

```
MariaDB [Walaa]> INSERT INTO Contain VALUES ('P100111','OR1110','S','2');
Query OK, 1 row affected (0.011 sec)
```

```
MariaDB [Walaa]> INSERT INTO Contain VALUES ('P100112','OR1111','M','1');
Query OK, 1 row affected (0.007 sec)
```

```
MariaDB [Walaa]> INSERT INTO Contain VALUES ('P100113','OR1112','M-L','2');
Query OK, 1 row affected (0.007 sec)
```

```
MariaDB [Walaa]> INSERT INTO Contain VALUES ('P100114','OR1113','L','2');
Query OK, 1 row affected (0.007 sec)
```

```
MariaDB [Walaa]> INSERT INTO Contain VALUES ('P100115','OR1114','S','2');
Query OK, 1 row affected (0.007 sec)
```

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2. Description of table:

```
MariaDB [Walaa]> SELECT * FROM Contain;
Empty set (0.004 sec)

MariaDB [Walaa]> desc Contain;
+-----+-----+-----+-----+-----+-----+
| Field      | Type          | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| ProductNo  | varchar(10)   | YES  | MUL | NULL    |       |
| OrderNo    | varchar(10)   | YES  | MUL | NULL    |       |
| Size       | varchar(10)   | YES  |     | NULL    |       |
| Quantity   | varchar(10)   | YES  |     | NULL    |       |
+-----+-----+-----+-----+-----+-----+
4 rows in set (0.013 sec)
```

3. To insert information:

```
MariaDB [Walaa]> INSERT INTO Contain VALUES ('P100115','OR1114','S-M-L','30');
Query OK, 1 row affected (0.007 sec)

MariaDB [Walaa]> SELECT * FROM Contain;
+-----+-----+-----+-----+
| ProductNo | OrderNo | Size | Quantity |
+-----+-----+-----+-----+
| P100111   | OR1110  | S    | 2         |
| P100112   | OR1111  | M    | 1         |
| P100113   | OR1112  | M-L  | 2         |
| P100114   | OR1113  | L    | 2         |
| P100115   | OR1114  | S    | 2         |
| P100115   | OR1114  | S-M-L | 30        |
+-----+-----+-----+-----+
6 rows in set (0.001 sec)
```

4. To update records:

```
MariaDB [Walaa]> Update Contain
-> SET Size = 'S-L'
-> WHERE ProductNo = 'P100115';
Query OK, 2 rows affected (0.015 sec)
Rows matched: 2  Changed: 2  Warnings: 0
```

```
MariaDB [Walaa]> SELECT * FROM Contain;
+-----+-----+-----+-----+
| ProductNo | OrderNo | Size | Quantity |
+-----+-----+-----+-----+
| P100111   | OR1110  | S    | 2         |
| P100112   | OR1111  | M    | 1         |
| P100113   | OR1112  | M-L  | 2         |
| P100114   | OR1113  | L    | 2         |
| P100115   | OR1114  | S-L  | 2         |
| P100115   | OR1114  | S-L  | 30        |
+-----+-----+-----+-----+
6 rows in set (0.000 sec)
```

5. To delete records:

```
MariaDB [Walaa]> DELETE FROM Contain
-> WHERE ProductNo IN ('P100115','OR1114','S-L','30');
Query OK, 2 rows affected (0.014 sec)
```

```
MariaDB [Walaa]> SELECT * FROM Contain;
+-----+-----+-----+-----+
| ProductNo | OrderNo | Size | Quantity |
+-----+-----+-----+-----+
| P100111   | OR1110  | S    | 2         |
| P100112   | OR1111  | M    | 1         |
| P100113   | OR1112  | M-L  | 2         |
| P100114   | OR1113  | L    | 2         |
| P100115   | OR1114  | S    | 2         |
+-----+-----+-----+-----+
5 rows in set (0.001 sec)
```

Visual Basic Design:



A login form titled "Boutique" in blue. Below the title is the text "Log In" in italics. There are two input fields: "Username:" and "Password:". At the bottom, there are two buttons: "Sing up" and "OK".

Boutique

Log In

Username:

Password:



A sign-up form titled "Sign up" in blue. There are four input fields: "First name:", "Last name:", "Email:", and "Phone :". At the bottom, there are two buttons: "Back" and "OK".

Sign up

First name:

Last name:

Email:

Phone :

Purchase your order Now!

Product No.

Quantity:

Size:

Back

Next

Complete your order!

City:

State:

Street:

Zip code:

Back

Next

The Task is Done!!