Normalization done:-

```
create table Deals (
 Deal_ID VARCHAR(10),
 item_id VARCHAR(50) NOT NULL ,
 Discounttype varchar(10) ,
        PRIMARY KEY (Deal_ID,item_Id),
        FOREIGN KEY(item_id) REFERENCES Item(item_id),
FOREIGN KEY(Discounttype) REFERENCES Discounttypes(Discounttype)

);
```

```
insert into Deals (Deal_ID, item_id, Discounttype) values ('2T3BFREV2DW871421',
'25-4705406', 'a');
insert into Deals (Deal_ID, item_id, Discountype) values ('1GYFK66897R293725', '25-4705406',
'b');
insert into Deals (Deal_ID, item_id, Discounttype) values ('WBAKB0C50BC601160',
'25-4705406', 'c');
```

```
Create table discounttypes(
 Discounttype varchar(10),
 Discount int,
 Primary key(Discounttype)
);
```

```
create index percent_i on discounttypes(Discount)
```

```
insert into Discounttypes (Discounttype, Discount) values ('a',10);
insert into Discounttypes (Discounttype, Discount) values ('b',10);
insert into Discounttypes (Discounttype,Discount) Values('c',15);
```

```sql
create table Transaction (
 transaction_id VARCHAR(50),
 account_id varchar(20),
 item_id VARCHAR(50) not null,
 transacted_money VARCHAR(50) not null,
 transaction_time VARCHAR(50) not null,
 transaction_date DATE,
 payment_mode varchar(30) not null,

        PRIMARY KEY (transaction_id,account_id),
        FOREIGN KEY(item_id) REFERENCES Item(item_id) on delete cascade
        );

insert into Transaction (transaction_id, item_id, transacted_money, transaction_time,
transaction_date,payment_mode,account_id) values ('609046', '80-8120408', '1656.75', '10:46
AM', '1978-11-01','paytm','123456');
insert into Transaction (transaction_id, item_id,transacted_money, transaction_time,
transaction_date,payment_mode,account_id) values ('503841', '63-1435626', '19317.08', '9:46
AM', '1978-11-02','debitcard','123457');
insert into Transaction (transaction_id, item_id, transacted_money, transaction_time,
transaction_date,payment_mode,account_id) values ('834315','44-2094172', '5472.95', '9:42
AM', '1978-11-03','creditcard','123458');

create table acounts(
 account_id varchar(20),
 Customer_id VARCHAR(50),
 primary key(account_id),
 foreign key(customer_id) refrences customer(customer_id)
);
insert into accounts (account_id,Customer_id) values('123456','10-1234561');
insert into accounts (account_id,Customer_id) values('123457','10-1234566');
insert into accounts (account_id,Customer_id) values('123458','10-1234569');
```

```sql
create table Item (
item_id VARCHAR(50),
Name TEXT,
Item_type TEXT,
Supplier_id VARCHAR(50),
Item_available _status VARCHAR(50),
Places_item_available VARCHAR(50),
Price  INT,
Image VARCHAR(200)
PRIMARY KEY (`item_id`)
foreign key(Supplier_id) refrences Suppliers(Supplier_id)
);

create index name_i on item(Name)
create index type_i on item(item_type)


insert into Item (item_id, Name, Item_type, Supplier_id, Item_available_status,
Places_item_available, Price ,Image) values ('80-8120408', 'Rammstien', 'Rum', '83-1405833',
'Available', 'Delhi',
1995,'https://shop.rammstein.de/img/katalog/1617/2048/flasche-rum-null-1.jpg');
insert into Item (item_id, Name, Item_type, Supplier_id, Item_available_status,
Places_item_available, Price ,Image) values ('63-1435626', 'Bombay Saphire', 'Dry Gin',
'33-9555938', 'Available', 'Rajasthan',
1802,'https://products0.imgix.drizly.com/ci-bombay-sapphire-4967085f606d9efa.jpeg?auto=form
at%2Ccompress&fm=jpg&q=20');
insert into Item (item_id, Name, Item_type, Supplier_id, Item_available_status,
Places_item_available, Price ,Image) values ('44-2094172', 'Jose Cuervo','Tequila',
'17-8789465', 'Available', 'Haryana',
224,'https://products0.imgix.drizly.com/ci-jose-cuervo-especial-silver-tequila-b4511db8b8f76297.
png?auto=format%2Ccompress&fm=jpg&q=20');
```

```sql
create table Suppliers (

  Supplier_id VARCHAR(50) UNIQUE NOT NULL,
  Name VARCHAR(50) NOT NULL,
  Surname VARCHAR(50),
  Aadhar_No CHAR(12) UNIQUE NOT NULL,
  Licence_No VARCHAR(50) UNIQUE NOT NULL,
  Owner_address VARCHAR(50) NOT NULL,
         Shop_address VARCHAR(50) NOT NULL,
  Contact_No VARCHAR(10) UNIQUE NOT NULL,
  email VARCHAR(50) UNIQUE NOT NULL,
  City_Serveable VARCHAR(50) NOT NULL,
  password VARCHAR(50) NOT NULL,
  PRIMARY KEY(Supplier_id)
);
insert into Suppliers (Supplier_id, Name, Surname, Aadhar_No, Licence_No, Owner_address,
Shop_address, Contact_No, email, City_Serveable, password) values ('78-2047288', 'Merry',
'Kenningham', '543645676781', '22-7856580', '1152 Algoma Alley', '1 Karol Bagh',
'7801753624', 'mkenningham0@multiply.com', 'Rust'avi','abc');
insert into Suppliers (Supplier_id, Name, Surname, Aadhar_No, Licence_No, Owner_address,
Shop_address, Contact_No, email, City_Serveable, password) values ('17-0770292', 'Carlotta',
'Creber', '873645676781', '07-3368701', '5313 Logan Road', '2 Karol Bagh', '8292639898',
'ccreber1@flavors.me', 'Soras','bcd');
insert into Suppliers (Supplier_id, Name, Surname, Aadhar_No, Licence_No, Owner_address,
Shop_address, Contact_No, email, City_Serveable, password) values ('52-0740079', 'Talia',
'Felgate', '987645676781', '00-5337482', '5 Cambridge Street', '3 Karol Bagh', '6081903769',
'tfelgate2@apple.com', 'Sandouping','bdd');
insert into Suppliers (Supplier_id, Name, Surname, Aadhar_No, Licence_No, Owner_address,
Shop_address, Contact_No, email, City_Serveable, password) values ('53-5355563', 'Ginger',
'Avrashin', '879645676781', '10-1480536', '979 Swallow Hill', '4 Karol Bagh', '4391704148',
'gavrashin3@csmonitor.com', 'Bayan-Ovoo','jdnkjd');
```

```sql
create table Customer (
 Customer_id VARCHAR(50) UNIQUE NOT NULL,
 Customer_name VARCHAR(50) NOT NULL,
 Surname VARCHAR(50),
 email VARCHAR(50) UNIQUE NOT NULL,
 DOB DATE NOT NULL,
 state VARCHAR(50) NOT NULL,
 city VARCHAR(50) NOT NULL,
 address VARCHAR(50) NOT NULL,
 delivery_Phone_no VARCHAR(10) UNIQUE NOT NULL,
 pass_word VARCHAR(50) NOT NULL,
 aadhar_no CHAR(12) NOT NULL UNIQUE,
 PRIMARY KEY(Customer_id)
);
insert into Customer (Customer_id, Customer_name, Surname, email, DOB, state, city, address,
delivery_Phone_no, pass_word, aadhar_no) values ('10-1234561', 'Kaiman', 'Yadav',
'yadavkaiman@gmail.com', '1990-12-22', 'Delhi', 'Girsereng', '598 Delladonna Avenue',
'9900887766', 'qWs9ClCt', '543232123456');
insert into Customer (Customer_id, Customer_name, Surname, email, DOB, state, city, address,
delivery_Phone_no, pass_word, aadhar_no) values ('10-1234562', 'Ankit', 'McGlaud',
'Mcglaudankit@gmail.com', '1991-12-22', 'Ontario', 'North Bay', '46 Vidon Trail', '9876543211',
'vmM2rH4skpa', '675868569565');
insert into Customer (Customer_id, Customer_name, Surname, email, DOB, state, city, address,
delivery_Phone_no, pass_word, aadhar_no) values ('10-1234563', 'Yashraj', 'Alchin',
'alchinyashraj@gmail.com', '1989-12-22', 'Mumbai', 'Zherdevka', '23854 Boyd Drive',
'9878987898', 'y6L5lYb8', '324354678798');




create table Rejected_Order (
 Order_id  VARCHAR(50) UNIQUE NOT NULL,
 Item_ID VARCHAR(50) NOT NULL,
 Supplier_id VARCHAR(50) NOT NULL,
 Customer_id VARCHAR(50) NOT NULL,


 PRIMARY KEY(Order_id),
        foreign key(Customer_id) REFERENCES Customer(Customer_id) on delete cascade,
 FOREIGN KEY(Item_id) REFERENCES Item(Item_id) on delete cascade,
 FOREIGN KEY(Supplier_id) REFERENCES Suppliers(Supplier_id) ON update cascade ON
delete cascade
);
```

```sql
insert into Rejected_Order (Order_id, Item_id, Supplier_id, Customer_id) values
('KNDJT2A24D7018988','80-8120408','52-0740079', '10-1234561');
insert into Rejected_Order (Order_id, Item_id, Supplier_id, Customer_id) values
('JA32U2FUXDU044717', '44-2094172', '78-2047288', '10-1234562');




Create table Reject_reason(
Customer_id VARCHAR(50) NOT NULL,
reason TEXT,
PRIMARY KEY(Customer_id)
);




insert into Reject_reason (Customer_id, reason) values ('10-1234561','Donec');
insert into Reject_reason(Customer_id, reason) values ( '10-1234562','Donec');
insert into Reject_reason(Customer_id, reason) values ( '10-1234562' ,'Donec');




create table Order1 (
 Order_id VARCHAR(50) UNIQUE NOT NULL,
 item_id VARCHAR(50) NOT NULL,
 Customer_id VARCHAR(50) NOT NULL,
 Quantity INT ,
 Contact_No VARCHAR(50) NOT NULL,
 Order_date DATE NOT NULL,
 Delivery_address VARCHAR(50) NOT NULL,
 PRIMARY KEY(Order_id),
 FOREIGN KEY(item_id) REFERENCES Item(item_id),
 FOREIGN KEY(Customer_id) REFERENCES Customer(Customer_id)

);
insert into Order1 (Order_id, item_id, Customer_id, Quantity, Contact_No, Order_date,
Delivery_address, Delivery_status) values ('KNDJT2A24D7018988', '462232', '10-1234561', 2,
'2142169709', '2020-01-12', '342 Dottie Center');
insert into Order1 (Order_id, item_id, Customer_id, Quantity, Contact_No, Order_date,
Delivery_address, Delivery_status) values ('JA32U2FUXDU044717', '462232', '10-1234562',  4,
'6863806243', '2020-01-13', '4 Michigan Plaza');
```

```sql
create table Order_Status (
 Order_id VARCHAR(50),
 reach_date DATE NOT NULL UNIQUE ,
 Employee_ID VARCHAR(50) NOT NULL UNIQUE,

 PRIMARY KEY(Order_id),

 FOREIGN KEY(Employee_ID) REFERENCES Delivery_Employee(Employee_ID) ON update
cascade ON delete cascade


 FOREIGN KEY(Order_id) REFERENCES order1(Order_id) ON update cascade ON delete
cascade

);
insert into Order_Status (Order_id, reach_date, Employee_ID ) values ('KNDJT2A24D7018988',
'2019-08-07', '585206');
insert into Order_Status (Order_id, reach_date, Employee_ID) values
('JA32U2FUXDU044717','2019-11-21', '202337');



create table add_to_cart (

Item_id varchar(50),
Customer_id VARCHAR(50),
Primary key(item_id),
FOREIGN KEY(item_id) REFERENCES Item(item_id),
 Foreign key(Customer_id) REFERENCES Customer(Customer_id)
);
```