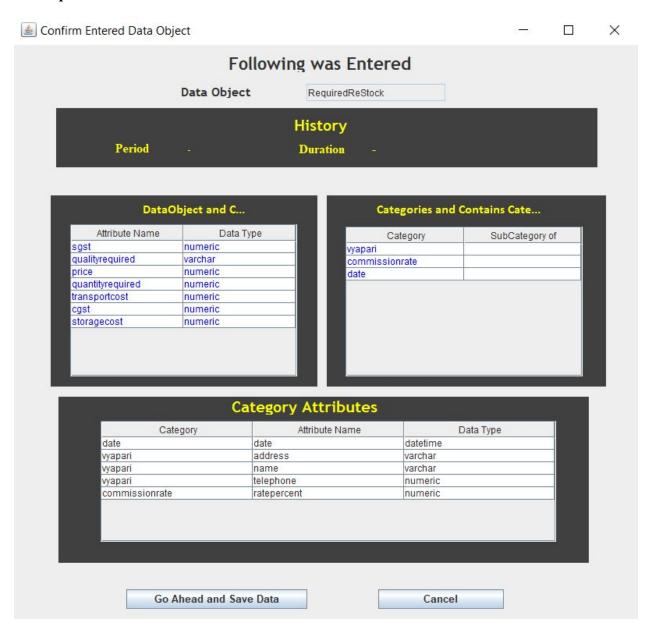
# **End Sem Project**

(Anamitra Maji (MT19112), Pragya Dara (MT19126), Swati Verma (MT19073))

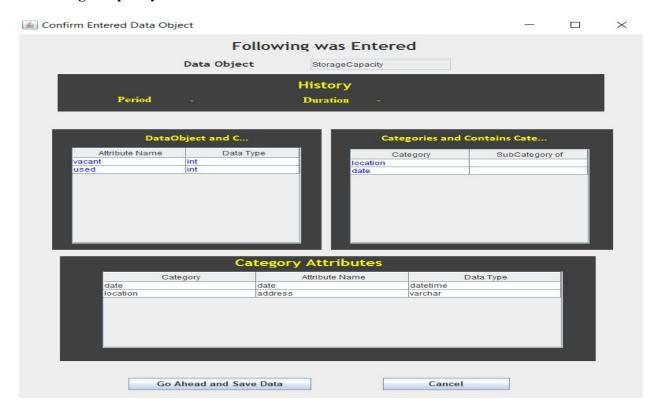
Initially all the data objects, category objects, their attributes and datatypes are entered in the given GUI tool.

Screenshots of successful storage of data is shown below:

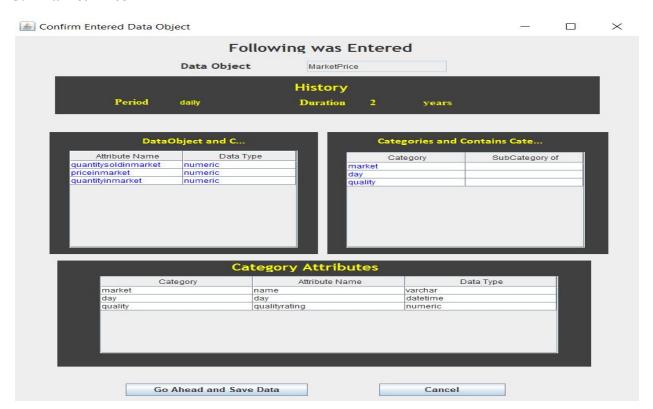
## 1. Required Restock



## 2. Storage Capacity



### 3. Market Price



### 4. Agreement to Sell



### 5. Business Ease



#### 6. Performance



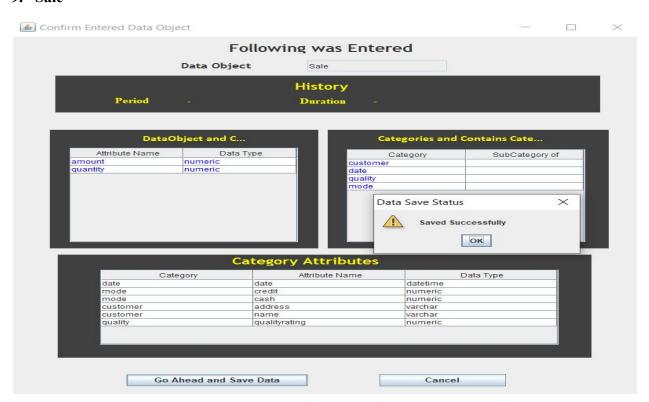
## 7. Delivery Time Agreement



## 8. Daily Agreement



### 9. Sale



### 10. Market Price1



### 11. Discarded Stock



### 12. Order1



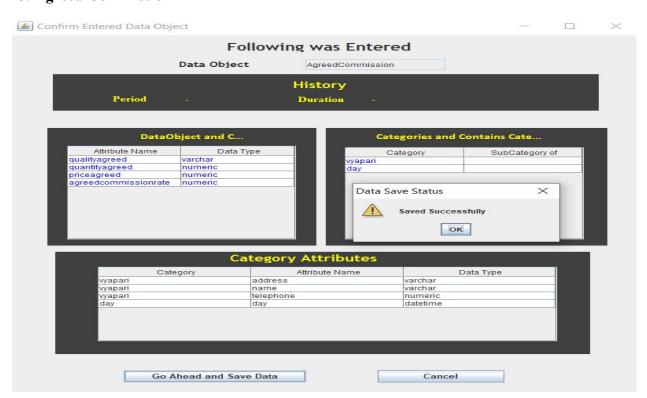
### 13. Stock in hand



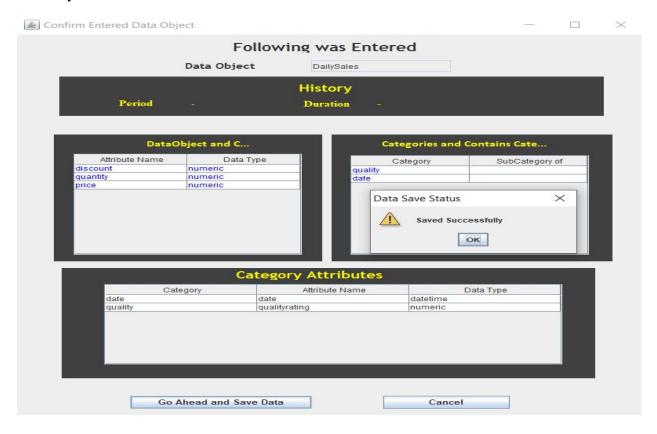
## 14. Daily Earning



## 15. Agreed Commission



## 16. Daily Sales

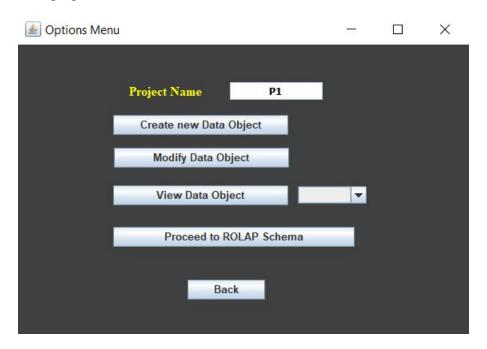


### 17. Commission Due



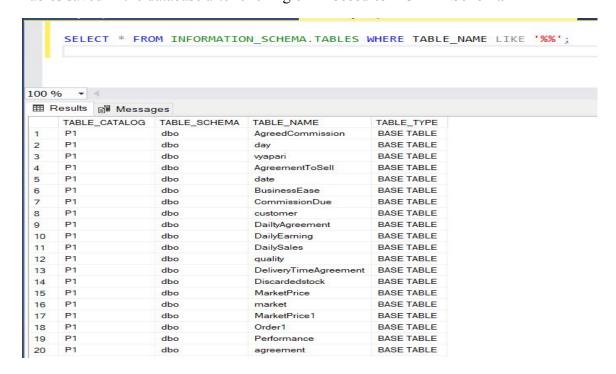
## Step 1 of the project:

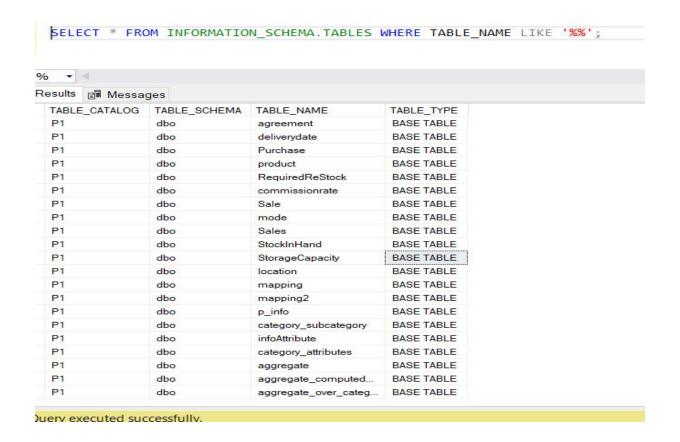
Changing name of END SEM button to Proceed to ROLAP Schema



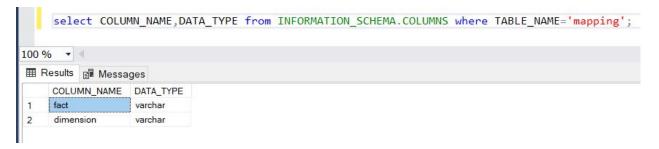
Step 2 Implementation of Conversion Algorithm and saving data in database.

Tables saved in the database after clicking on Proceed to ROLAP Schema

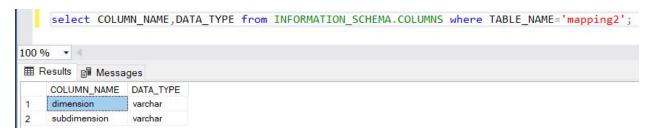




A mapping table is created which contains mapping of facts and dimensions



A mapping2 table is created which contains mapping of dimension-sub dimension.



## **Printing Facts and Dimensions in the Console:**

```
🔐 Problems @ Javadoc 🚇 Declaration 🖃 Console 🛭
WelcomeScreen [Java Application] C:\Program Files\Java\jre1.8.0_231\bin\javaw.exe (May 20, 2020, 11:30:58 PM)
jdbc:sqlserver://localhost;database=p1;integratedSecurity=true;
Connecting to database...
connected
Fact:
AgreedCommission (agreedcommissionrate,priceagreed,qualityagreed,quantityagreed)
Dimensions:
day (day)
Dimensions
vyapari (address,name,telephone)
AgreementToSell (commissionrateagrred, priceagreed, qualityagreed, quantityagreed)
Dimensions:
date (date)
Dimensions:
vyapari (address,name,telephone)
Fact:
BusinessEase (easynewprice,easynewquantity,easyqualitychange)
Dimensions:
date (date)
Dimensions:
vyapari (address, name, telephone)
CommissionDue (comissionamount, price, quantity)
Dimensions:
customer (address,cid,name,phone)
Dimensions:
day (day)
DailtyAgreement (commissionrate, price, quality, quantity)
Dimensions:
day (day)
Dimensions:
vyapari (address,name,telephone)
DailyEarning (commissionrate, quantity, sellingrate)
Dimensions:
date (date)

    Problems @ Javadoc    Declaration    □ Console    □

WelcomeScreen [Java Application] C:\Program Files\Java\jre1.8.0_231\bin\javaw.exe (May 20, 2020, 11:30:58 PM)
DailySales (discount, price, quantity)
Dimensions:
date (date)
Dimensions
quality (qualityrating)
DeliveryTimeAgreement (commissionrateagreed,deliveredquality,deliverytimepriceagreed,originalpriceagreed,qualityagreed,quantityagreed)
Dimensions:
date (date)
Dimensions
vyapari (address,name,telephone)
Discardedstock (quantitythrown)
Dimensions:
date (date)
Dimensions:
vyapari (address,name,telephone)
MarketPrice (price,priceinmarket,quality,quantityinmarket,quantitysoldinmarket)
Dimensions:
day (day)
Dimensions:
market (name)
Dimensions:
quality (qualityrating)
Fact:
MarketPrice1 (price,quality)
Dimensions:
day (day)
Dimensions:
market (name)
Fact:
Order1 (amount, quantity)
Dimensions:
customer (address,cid,name,phone)
Dimensions:
date (date)
quality (qualityrating)
Dimensions:
vyapari (address,name,telephone)
```

```
Problems @ Javadoc  □ Declaration □ Console ≅
WelcomeScreen [Java Application] C:\Program Files\Java\jre1.8.0_231\bin\javaw.exe (May 20, 2020, 11:30:58 PM)
Fact:
Performance (deliveryleadtime, punctual supply, quality agreed, quality supplied, quantity agreed, quantity supplied)
Dimensions:
agreement (id)
Dimensions:
deliverydate (date)
Dimensions:
vyapari (address,name,telephone)
Purchase (orderid, quantity, value)
Dimensions:
customer (address, cid, name, phone)
Dimensions:
product (colour,productid,volume,weight)
Fact:
RequiredReStock (cgst,price,qualityrequired,quantityrequired,sgst,storagecost,transportcost)
Dimensions:
commissionrate (ratepercent)
Dimensions:
date (date)
Dimensions:
vyapari (address,name,telephone)
Fact:
Sale (amount, quantity)
Dimensions:
customer (address, cid, name, phone)
Dimensions:
date (date)
Dimensions:
mode (cash, credit)
Dimensions:
quality (qualityrating)
Fact:
Sales (quantity, salesid, value)
Dimensions:
customer (address, cid, name, phone)
Dimensions:
product (colour,productid,volume,weight)
Fact:
StockInHand (totalquantityinhand)
Dimensions:
day (day)
Dimensions:
quality (qualityrating)
Dimensions:
vyapari (address, name, telephone)
Fact:
StorageCapacity (used, vacant)
Dimensions:
date (date)
Dimensions:
location (address)
```

After clicking on **Proceed to ROLAP Schema** button all the facts and dimensions are tables are created and schemas are stored in the database which is shown below:

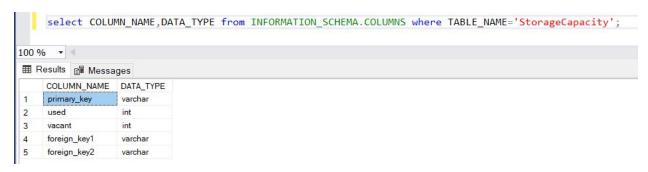
## **Schema of Data Objects**

### **Fact Tables:**

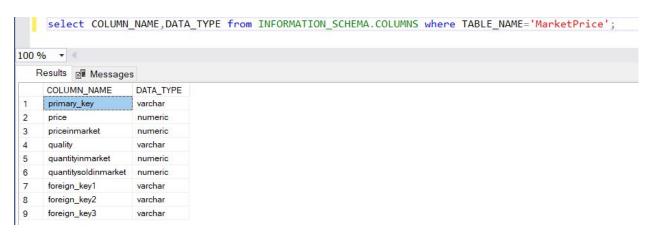
## 1. Required Restock



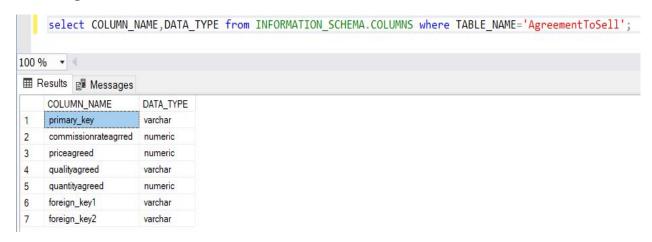
## 2. Storage Capacity



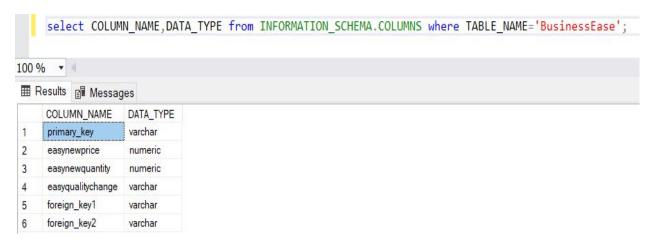
#### 3. Market Price



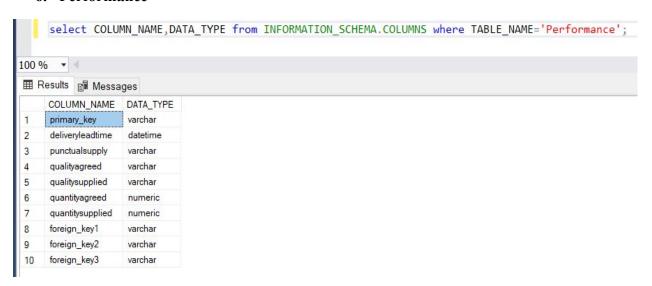
## 4. Agreement to Sell



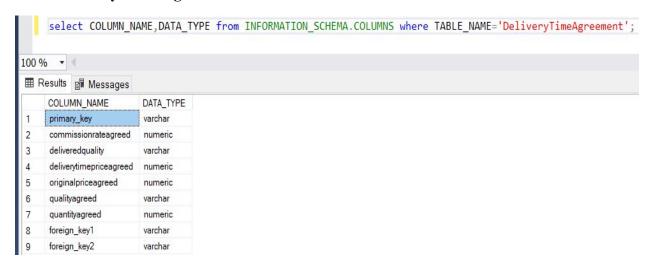
### 5. Business Ease



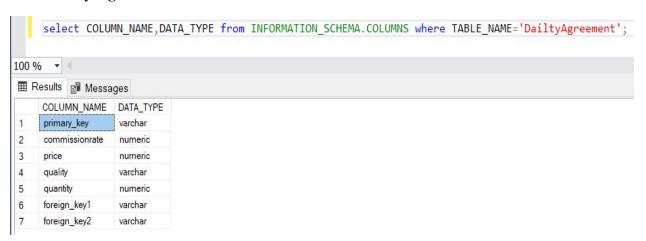
### 6. Performance



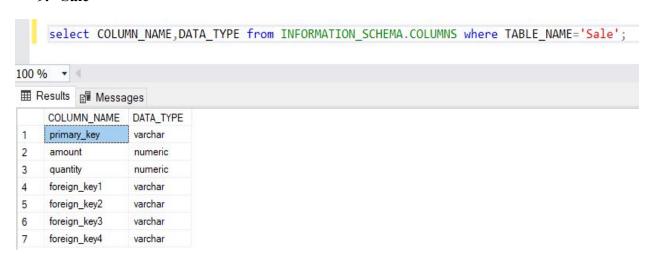
## 7. Delivery Time Agreement



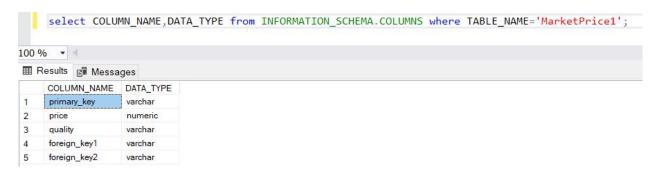
## 8. Daily Agreement



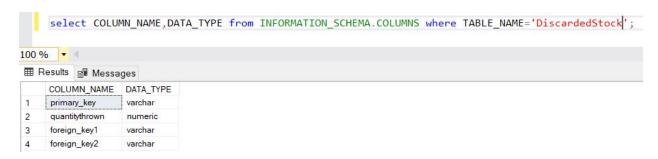
#### 9. Sale



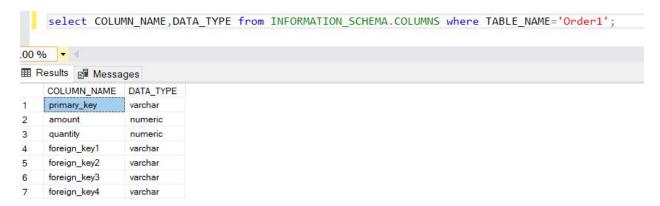
### 10. Market Price1



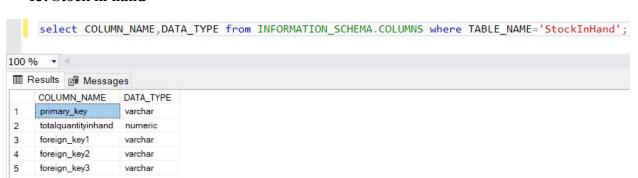
#### 11. Discarded Stock



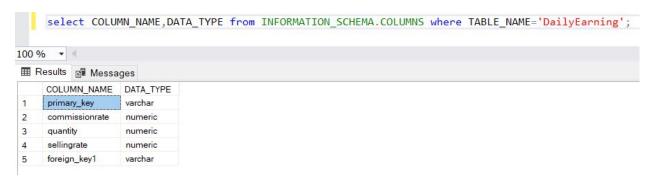
### 12. Order1



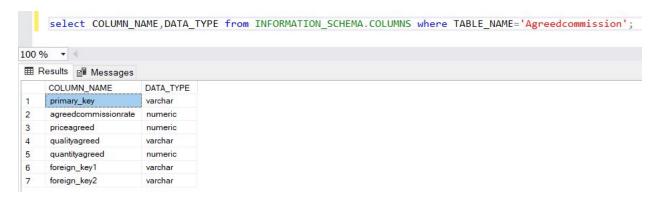
#### 13. Stock in hand



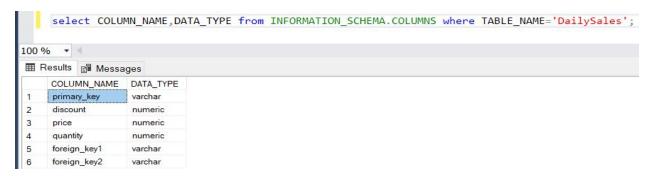
## 14. Daily Earning



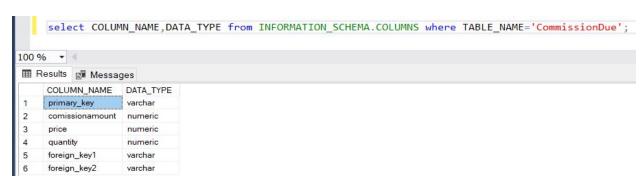
### 15. Agreed Commission



### 16. Daily Sales



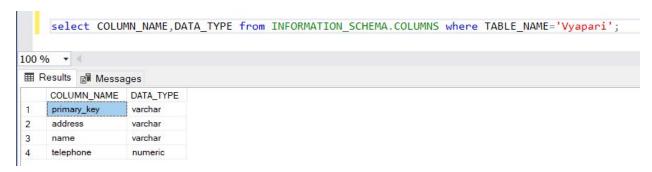
### 17. Commission due



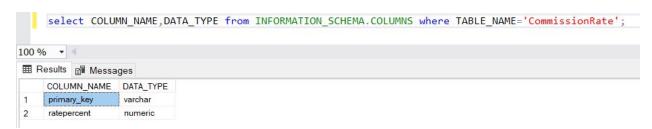
## **Schema of Category Objects:**

### **Dimension Tables:**

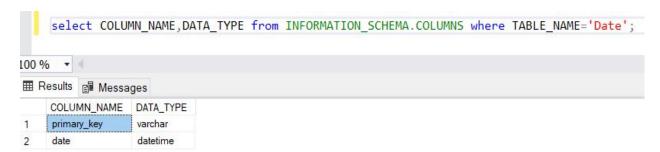
## 1. Vyapari



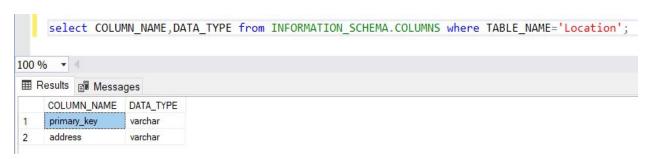
### 2. Commission Rate



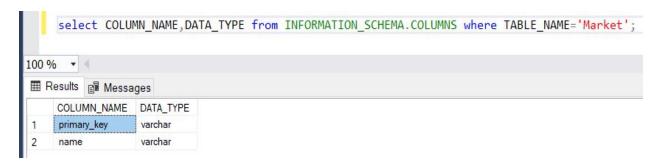
#### 3. Date



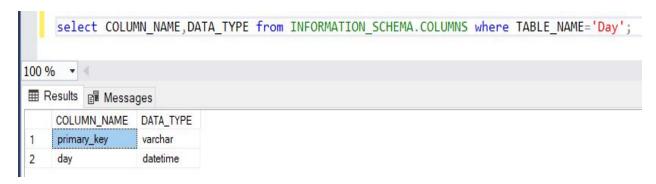
### 4. Location



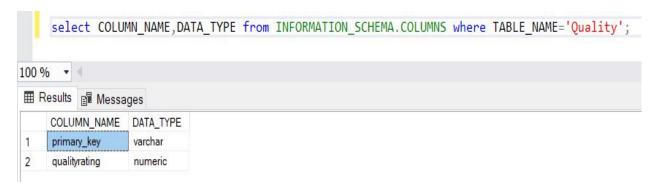
### 5. Market



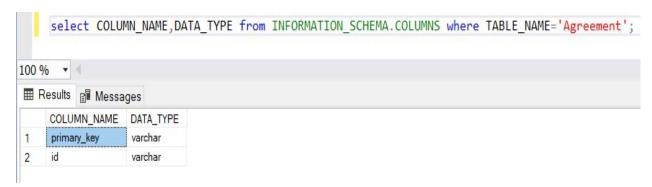
## 6. Day



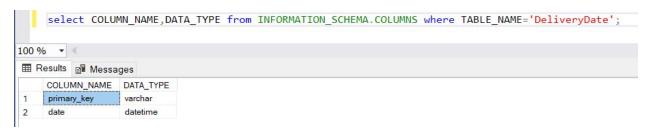
## 7. Quality



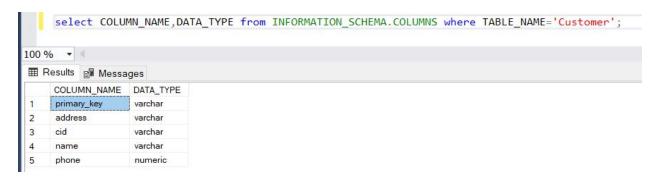
### 8. Agreement



## 9. Delivery Date



### 10. Customer



### **11. Mode**

