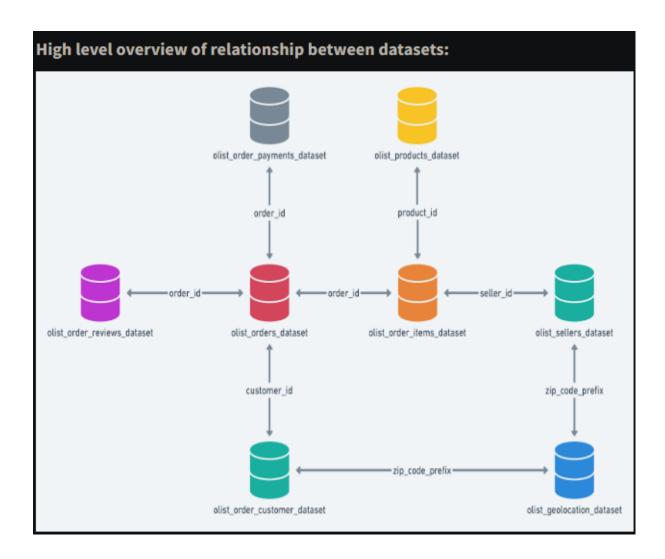
# Target: SQL Business Case Study

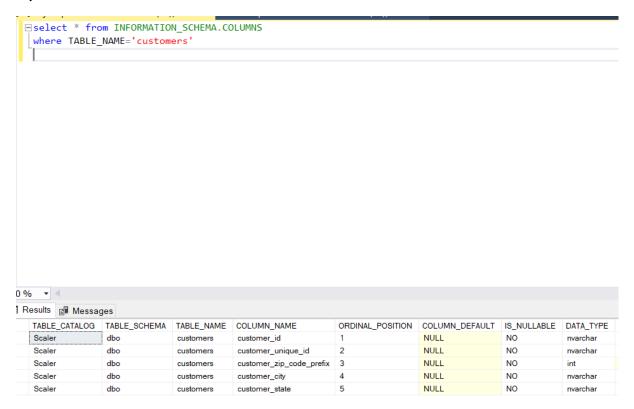


Schema of the Database

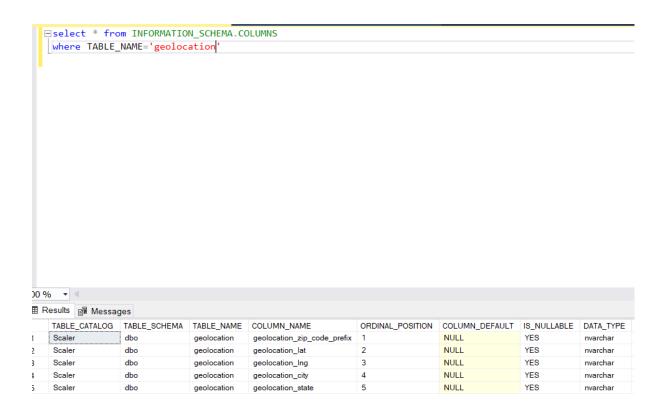
Q1 ->Import the dataset and do usual exploratory analysis steps like checking the structure & characteristics of the dataset

1.a) Data type of columns in a table

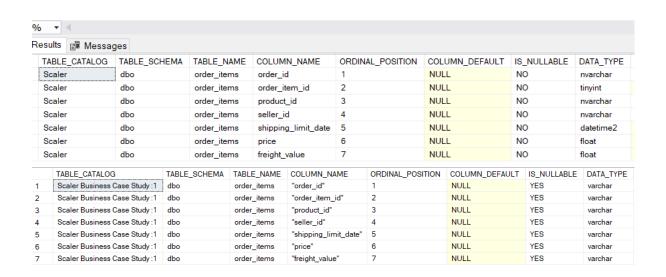
### 1) customers Table Schema



# 2) geolocation Table Schema



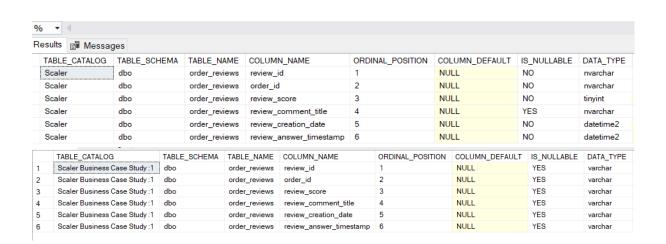
3) order\_items Table Schema



### 4) order\_reviews Table Schema

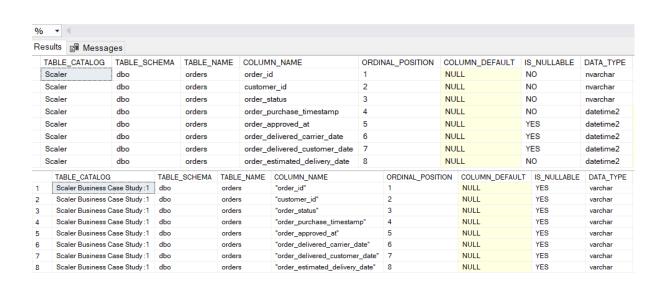
```
☐select * from INFORMATION_SCHEMA.COLUMNS

| where TABLE_NAME='order_reviews'
```



# 5) orders Table Schema

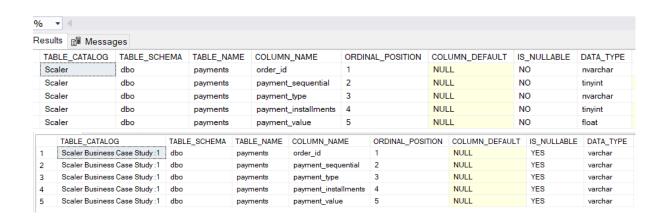
```
Select * from INFORMATION_SCHEMA.COLUMNS
where TABLE_NAME='orders'
```



# 6) payments Table Schema

```
□ select * from INFORMATION_SCHEMA.COLUMNS

| where TABLE_NAME='payments'
```



# 7) products Table Schema

```
□select * from INFORMATION_SCHEMA.COLUMNS
| where TABLE_NAME='products'
```

TABLE CATALOG	sages G TABLE SCHEMA		TABLE NAME		COLUMN NAME		ORDINAL POSITION		COLUMN_DEFAULT		IS_NULLABLE	DATA_TYPE
Scaler		dbo		products		product id		1		LL	NO	nvarchar
Scaler		dbo		products		product category				LL	YES	nvarchar
Scaler		dbo		products		product name length		3		LL	YES	nvarchar
Scaler	dbo			products		product_description_length		4		LL	YES	nvarchar
Scaler	dbo	dbo		products		product_photos_qty		5		LL	YES	nvarchar
Scaler	dbo	dbo		products		product_weight_g		6		LL	YES	nvarchar
Scaler	dbo	dbo		products		product_length_cm		7		LL	YES	tinyint
Scaler	dbo	dbo		products		product_height_cm		8		LL	YES	tinyint
Scaler dbo			products		product_width_cm		9		NULL		YES	tinyint
TABLE_CATALOG 1		TABLE	BLE_SCHEMA TA		BLE_NAME   COLUMN_NAME		ORDINAL_POSITI		ION	COLUMN_DEFAUL	Γ IS_NULLABLE	DATA_TYF
Scaler Business Case Study:1		dbo	ю р		icts	product_id		1		NULL	YES	varchar
Scaler Business Case Study:1		dbo	о р		ıcts	product category		2		NULL	YES	varchar
Scaler Business Case Study:1 db		dbo	prod		ıcts	product_name_length		3		NULL	YES	varchar
Scaler Business Case Study:1 dbd		dbo	produ		lucts product_description_		length	ength 4		NULL	YES	varchar
Scaler Business Case Study:1 d		dbo	o produ		lucts product_photos_qty		5			NULL	YES	varchar
Scaler Business Case Study:1		dbo	oo prod		ıcts	product_weight_g		6		NULL	YES	varchar
Scaler Business Case Study:1		dbo	bo pro		ıcts	product_length_cm		7		NULL	YES	varchar
Scaler Business Case Study:1 db		dbo	prod		ducts product_height_cm			8		NULL	YES	varchar
Scaler Busines	Scaler Business Case Study:1 dbd		produ		ucts product_width_cm			9		NULL	YES	varchar

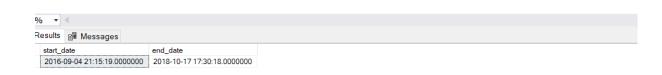
# 8) seller Table Schema



By using the following queries, we have answered the first question.

1.b) Time period for which the data is given

 ${\tt select\ min} ({\tt order\_purchase\_timestamp})\ as\ {\tt start\_date,max} ({\tt order\_purchase\_timestamp})\ as\ {\tt end\_date}\ from\ orders$ 



From the above question we can see that the dates or the time period for which the data is given is

From 4<sup>th</sup> Sep 2016 to 17<sup>th</sup> Oct 2018

1.c )Cities and States of customers ordered during the given period

```
| select distinct c.customer_city, c.customer_state | from orders o | join customers c | on | o.customer_id=c.customer_id | where o.order_purchase_timestamp between | (select min(order_purchase_timestamp) from orders) and (select max(order_purchase_timestamp) from orders)
```



With the above query we can be able to find distinct cities and states.