```sql
-- Use database
use BikeStores

-- Explore database
select top(5) * from sales.customers
select top(5) * from sales.order_items
select top(5) * from sales.orders
select top(5) * from sales.staffs
select top(5) * from sales.stores

select top(5) * from production.brands
select top(5) * from production.categories
select top(5) * from production.products
select top(5) * from production.stocks


-- Avg list price for each Brand
select b.brand_name as [Brand Name], AVG(p.list_price) as [AVG Price]
```

121 %

Results | **Messages**

	customer_id	first_name	last_name	phone	email	street	city	state	zip_code
1	1	Debra	Burks	NULL	debra.burks@yahoo.com	9273 Thorne Ave.	Orchard Park	NY	14127
2	2	Kasha	Todd	NULL	kasha.todd@yahoo.com	910 Vine Street	Campbell	CA	95008
3	3	Tameka	Fisher	NULL	tameka.fisher@aol.com	769C Honey Creek St.	Redondo Beach	CA	90278
4	4	Daryl	Spence	NULL	daryl.spence@aol.com	988 Pearl Lane	Uniondale	NY	11553
5	5	Charolette	Rice	(916) 381-6003	charolette.rice@msn.com	107 River Dr.	Sacramento	CA	95820

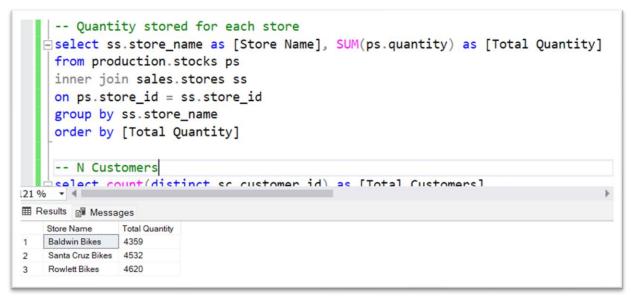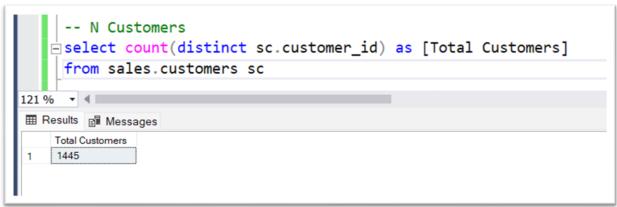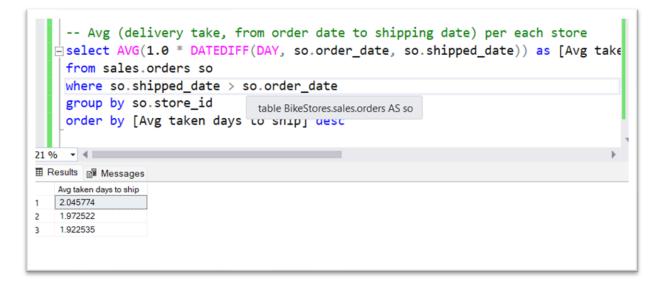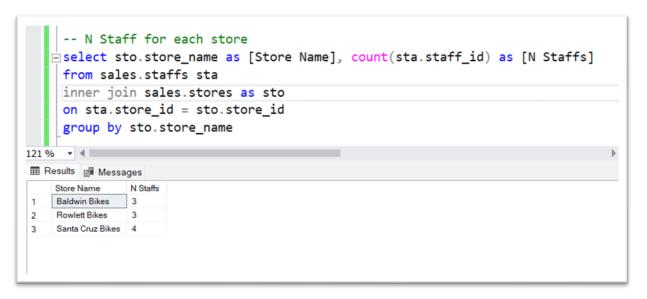|	order_id	item_id	product_id	quantity	list_price	discount
1	1	1	20	1	599.99	0.20
2	1	2	8	2	1799.99	0.07
3	1	3	10	2	1549.00	0.05
4	1	4	16	2	599.99	0.05
5	1	5	4	1	2899.99	0.20

```sql
-- Avg list price for each Brand
select b.brand_name as [Brand Name], AVG(p.list_price) as [AVG Price]
from production.products p
inner join production.brands b
on p.brand_id = b.brand_id
group by b.brand_name
order by [AVG Price] desc
```

-- Ava list price for each Category

121 %

Results | Messages

	Brand Name	AVG Price
1	Trek	2500.064074
2	Heller	2172.996666
3	Surly	1369.793600
4	Electra	761.006186
5	Ritchey	749.990000
6	Haro	621.990000
7	Sun Bicycles	524.468260
8	Pure Cycles	442.333333
9	Strider	209.990000

```sql
-- Avg list price for each Category
select c.category_name as [Category Name], AVG(p.list_price) as [AVG Price]
from production.products p
inner join production.categories c
on p.brand_id = c.category_id
group by c.category_name
order by [AVG Price] desc

-- Quantity stored for each store
select ss.store_name as [Store Name], SUM(ps.quantity) as [Total Quantity]
```

121 %

Results | Messages

	Brand Name	AVG Price
1	Trek	2500.064074
2	Heller	2172.996666
3	Surly	1369.793600
4	Electra	761.006186
5	Ritchey	749.990000
6	Haro	621.990000
7	Sun Bicycles	524.468260
8	Pure Cycles	442.333333
9	Strider	209.990000

```sql
-- Quantity stored for each store
select ss.store_name as [Store Name], SUM(ps.quantity) as [Total Quantity]
from production.stocks ps
inner join sales.stores ss
on ps.store_id = ss.store_id
group by ss.store_name
order by [Total Quantity]

-- N Customers
select count(distinct sc.customer_id) as [Total Customers]
```

	Store Name	Total Quantity
1	Baldwin Bikes	4359
2	Santa Cruz Bikes	4532
3	Rowlett Bikes	4620

```sql
-- N Customers
select count(distinct sc.customer_id) as [Total Customers]
from sales.customers sc
```

	Total Customers
1	1445

```sql
-- Avg (delivery take, from order date to shipping date) per each store
select AVG(1.0 * DATEDIFF(DAY, so.order_date, so.shipped_date)) as [Avg take
from sales.orders so
where so.shipped_date > so.order_date
group by so.store_id          table BikeStores.sales.orders AS so
order by [Avg taken days to ship] desc
```

	Avg taken days to ship
1	2.045774
2	1.972522
3	1.922535

```sql
-- N Staff for each store
select sto.store_name as [Store Name], count(sta.staff_id) as [N Staffs]
from sales.staffs sta
inner join sales.stores as sto
on sta.store_id = sto.store_id
group by sto.store_name
```

121 %

Results | **Messages**

	Store Name	N Staffs
1	Baldwin Bikes	3
2	Rowlett Bikes	3
3	Santa Cruz Bikes	4

```sql
-- N stores
select count(distinct ss.store_id) as [N stores]
from sales.stores ss
```

121 %

Results | **Messages**

	N stores
1	3

```sql
-- Total Sales per each store
select ss.store_name as [Store Name], SUM(soi.quantity * soi.list_price * (1.0 - soi.discount)) as [Total Sales after discoun
from sales.order_items soi
inner join sales.orders so
on so.order_id = soi.order_id
inner join sales.stores ss
on ss.store_id = so.store_id
group by ss.store_name

-- Total Sales per each staff
```

75 %

Results | **Messages**

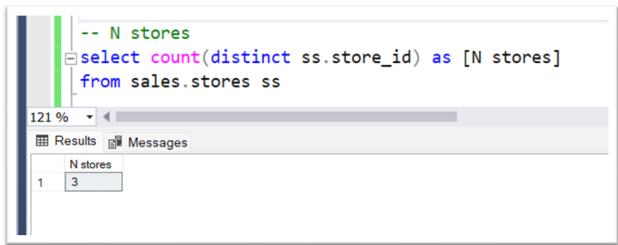|	Store Name	Total Sales after discount
1	Santa Cruz Bikes	1605823.0365
2	Rowlett Bikes	867542.2436
3	Baldwin Bikes	5215751.2775

```sql
-- Total Sales per each staff
select
    ss.first_name + ' ' + ss.last_name as [Staff Name],
    SUM(soi.quantity * soi.list_price * (1.0 - soi.discount)) as [Total Sales after discount]
from sales.order_items soi
inner join sales.orders so
on so.order_id = soi.order_id
inner join sales.staffs ss
on ss.store_id = so.store_id
group by ss.first_name + ' ' + ss.last_name
order by [Total Sales after discount] desc
```

75 % ▼

Results | **Messages**

	Staff Name	Total Sales after discount
1	Marcelene Boyer	5215751.2775
2	Venita Daniel	5215751.2775
3	Jannette David	5215751.2775
4	Fabiola Jackson	1605823.0365
5	Genna Serrano	1605823.0365
6	Mireya Copeland	1605823.0365
7	Virgie Wiggins	1605823.0365
8	Kali Vargas	867542.2436
9	Bernardine Houston	867542.2436
10	Layla Terrell	867542.2436

```sql
-- Total Buy per each customer, TOP(10) only
select top(10)
    sc.first_name + ' ' + sc.last_name as [Store Name],
    SUM(soi.quantity * soi.list_price * (1.0 - soi.discount)) as [Total Buy after discount],
    COUNT(distinct so.order_id) as [N Orders paid],
    COUNT(soi.item_id) as [N items paid]
from sales.order_items soi
inner join sales.orders so
on so.order_id = soi.order_id
inner join sales.customers sc
on sc.customer_id = so.customer_id
group by sc.first_name + ' ' + sc.last_name
order by [Total Buy after discount] desc
```

100 % ▼

Results | **Messages**

	Store Name	Total Buy after discount	N Orders paid	N items paid
1	Sharyn Hopkins	34807.9392	2	10
2	Pamelia Newman	33634.2604	3	11
3	Abby Gamble	32803.0062	2	7
4	Lyndsey Bean	32675.0725	3	11
5	Emmitt Sanchez	31925.8857	3	12
6	Melanie Hayes	31913.6902	2	7
7	Debra Burks	27888.1834	3	11
8	Elinore Aguilar	25636.4531	3	10
9	Corrina Sawyer	25612.7021	2	8
10	Shena Carter	24890.6244	1	4

Bike Stores

1445
Total Orders

7078
Total Quantities Sold

5.73M
Total Sales

Total Sales by Brand

Brand	Sales
Trek	3.4M
Electra	0.9M
Surly	0.7M
Sun Bicycles	0.3M
Haro	0.1M
Heller	0.1M
Pure Cycles	0.1M
Ritchey	0.1M
Strider	0.0M

Total Sales over Time

0.16M, 0.11M, 0.21M, 0.14M, 0.17M, 0.26M, 0.16M, 0.19M, 0.28M, 0.14M

يناير 2016 — يوليو 2016 — يناير 2017 — يوليو 2017 — يناير 2018

Total Sales by Category

Category	Sales
Mountain Bikes	2.04M
Road Bikes	1.24M
Cruisers Bicycles	0.74M
Electric Bikes	0.68M
Cyclocross Bicycles	0.52M
Comfort Bicycles	0.29M
Children Bicycles	0.22M

Total sales by Store

- 0.51M (8.92%)
- 0.76M (13.21%)
- 0.94M (16.39%)
- 3.52M (61.48%)

● Baldwin Bikes
● Santa Cruz Bikes
● (Blank)
● Rowlett Bikes

Bike Stores

3
Stores Count

14K
Total Production in Stock

9
brands Count

7
Categories Count

Staff Count by Store

Store	Count
Santa Cruz Bikes	4
Baldwin Bikes	3
Rowlett Bikes	3

Avg Delivery days by Store

Store	Days
Santa Cruz Bikes	2.05
Baldwin Bikes	1.97
Rowlett Bikes	1.92

Quantity Stored by Store

- 4359 (32.26%)
- 4620 (34.19%)
- 4532 (33.54%)

● Rowlett Bikes
● Santa Cruz Bikes
● Baldwin Bikes

Orders Count by Store

Store	Count
Baldwin Bikes	1019
Santa Cruz Bikes	284
Rowlett Bikes	142

Bike Stores

10
Staff Count

Marcelene Boyer
1,795,918.22
Top Sales

Marcelene Boyer
521
Top N Orders

Marcelene Boyer
2243
Top N Quantity

Total Sales by Staff

Staff	Value
Marcelene Boyer	1.80M
Venita Daniel	1.72M
Mireya Copeland	0.47M
Genna Serrano	0.47M
Kali Vargas	0.27M
Layla Terrell	0.25M

Staff Name	Total Sales		N items		N orders		N Quantity
Marcelene Boyer	1,795,918.22	▲	3360	▲	521	▲	2243
Venita Daniel	1,724,730.64	▲	3314	▲	498	▲	2184
Mireya Copeland	470,188.45	▼	874	▼	137	▼	572
Genna Serrano	468,466.05	▼	959	▼	147	▼	664
Kali Vargas	265,414.97	▼	508	▼	71	▼	343
Layla Terrell	245,167.04	▼	489	▼	71	▼	312
Total	**4,969,885.37**		**9504**		**1445**		**6318**