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```
select * from superstore
```
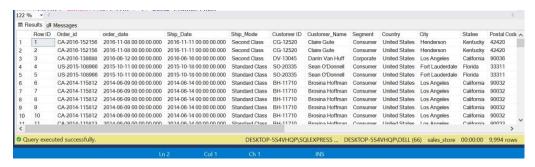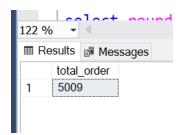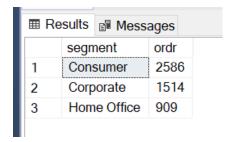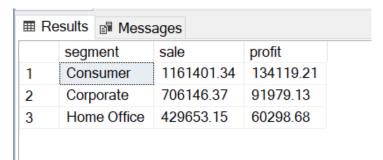


```
---Q.1 write the total order
select count(distinct(order_id))total_order from superstore
```



```
--Q.2 calculates the total order for each segment
select segment,count(distinct order_id) ordr from superstore group by segment
```
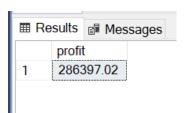


```
---Q.3 calculate the total sales and profit for each segment
select segment,round(sum(sales),2) sale,round(sum(profit),2) profit from superstore
group by segment order by sale desc
```
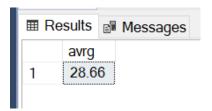


```
--Q.4 calcuclate the cumulative sum of sale
select round(sum(sales),2)total_sale from superstore
```
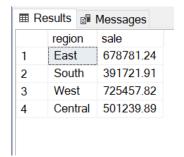
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	total_sale
1	2297200.86

--Q.5 calculate the total profit
```sql
select round(sum(profit),2) profit from superstore
```

	profit
1	286397.02

---Q.6 Calculate the cumulative avg of profit
```sql
select round(avg(profit),2) avrg from superstore
```

	avrg
1	28.66

--Q.7 calculate the total sale by region
```sql
select region,round(sum(sales),2) sale from superstore group by region
```

	region	sale
1	East	678781.24
2	South	391721.91
3	West	725457.82
4	Central	501239.89

--Q.8 calculate the total profit by region
```sql
select region,round(sum(profit),2)profit from superstore group by region
```

	region	profit
1	East	91522.78
2	South	46749.43
3	West	108418.45
4	Central	39706.36

--Q.9 calculate the cumulative sum of sales over each year

```sql
select year(order_date) years ,round(sum(sales),2) sale from superstore
group by  year(order_date) order by  year(order_date) asc
```

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	years	sale
1	2014	484247.5
2	2015	470532.51
3	2016	609205.6
4	2017	733215.26

--- Q.10 calculate the cumulative sum of profit over each year
```
select year(order_date) years ,round(sum(profit),2) profit from superstore
group by  year(order_date) order by  year(order_date) asc
```

	years	profit
1	2014	49543.97
2	2015	61618.6
3	2016	81795.17
4	2017	93439.27

---Q. 11 Calculate the Monthly sales trends.
```
select datename(MM,order_date) months ,round(sum(sales),2) sale from superstore
group by datename(mm,order_date)
order by sale desc
```
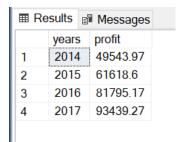
	months	sale
2	December	325293.5
3	September	307649.95
4	March	205005.49
5	October	200322.98
6	August	159044.06
7	May	155028.81
8	June	152718.68
9	July	147238.1
10	April	137762.13
11	January	94924.84
12	February	59751.25

---Q.12 calculate the daily trend by order
```
select DATENAME(dw,order_date)days,count(order_id) total_order
from superstore group by DATENAME(dw,order_date)
order by DATENAME(dw,order_date)
```

	days	total_order
1	Friday	1818
2	Monday	1871
3	Saturday	1655
4	Sunday	1710
5	Thursday	1463
6	Tuesday	1106
7	Wednesday	371

```sql
-- Q .13 Which state  has the highest number of orders
select statee,count(distinct(order_id)) cnt from superstore group by statee order by
cnt desc
```

	statee	cnt
1	California	1021
2	New York	562
3	Texas	487
4	Pennsylvania	288
5	Illinois	276
6	Washington	256
7	Ohio	236
8	Florida	200
9	North Carolina	136
10	Michigan	117
11	Virginia	115
12	Arizona	108

Query executed successfully.

```sql
--Q..14 which state has the highest sale and where we earn profit
select statee,sale,profit, case when profit <0 then 'loss' else 'profit' end as
profit_loss from
```

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```
(
select statee,sum(sales) sale,sum(profit)profit from superstore group by statee) a
order by sale desc,profit desc
```

	statee	sale	profit	profit_loss
1	California	457687.631500002	76381.3871	profit
2	New York	310876.271	74038.5486	profit
3	Texas	170188.0458	-25729.3563	loss
4	Washington	138641.27	33402.6517	profit
5	Pennsylvania	116511.914	-15559.9603	loss
6	Florida	89473.708	-3399.30170000001	loss
7	Illinois	80166.101	-12607.887	loss
8	Ohio	78258.1359999999	-16971.3766	loss
9	Michigan	76269.614	24463.1876	profit
10	Virginia	70636.72	18597.9504	profit
11	North Carolina	55603.164	-7490.91220000001	loss
12	Indiana	53555.36	18382.9363	profit

✓ Query executed successfully.

---Q.. 15 Calculate total sale and profit by category
```
select category,round(sum(sales),2) sale,sum(profit) profit from superstore group by
category
```

	category	sale	profit
1	Office Supplies	719047.03	122490.8008
2	Furniture	741999.8	18451.2728
3	Technology	836154.03	145454.9481

--Q.16 calculate total profit by category
```
select category,round(sum(profit),2) profit from superstore group by category
```

	category	sale	profit
1	Office Supplies	719047.03	122490.8008
2	Furniture	741999.8	18451.2728
3	Technology	836154.03	145454.9481

--Q.17 Top 10 best selling products
```
select top 10 product_name,total_sale,total_profit from
(select product_name,sum(sales) total_sale,sum(profit)total_profit from superstore
group by product_name)b
order by total_sale,total_profit desc
```

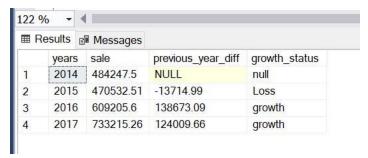|	product_name	total_sale	total_profit
1	Eureka Disposable Bags for Sanitaire Vibra Groom...	1.624	-4.466
2	Avery 5	5.76	2.8224
3	Xerox 20	6.48	3.1104
4	Grip Seal Envelopes	7.072	2.3868
5	Avery Hi-Liter Pen Style Six-Color Fluorescent Set	7.7	3.157
6	Avery Hi-Liter Comfort Grip Fluorescent Highlighter,...	7.8	3.042
7	Xerox 1989	7.968	2.6892
8	4009 Highlighters	8.04	2.7336
9	Stockwell Gold Paper Clips	8.096	3.404
10	Newell 308	8.4	2.1

```
--Q.18 Calculate the  loss & profit by sub-category
select sub_category,sale,profit_loss,case when
profit_loss< 0 then 'loss' else 'profit' end as PL_status from (

select sub_category,sum(sales) sale ,round(sum(profit),2) profit_loss
from superstore group by sub_category)b
order by sale desc
```

	sub_category	sale	profit_loss	PL_status
1	Phones	330007.054	44515.73	profit
2	Chairs	328449.103	26590.17	profit
3	Storage	223843.608	21278.83	profit
4	Tables	206965.532	-17725.48	loss
5	Binders	203412.733	30221.76	profit
6	Machines	189238.631	3384.76	profit
7	Accessories	167380.318	41936.64	profit
8	Copiers	149528.03	55617.82	profit
9	Bookcases	114879.9963	-3472.56	loss
10	Appliances	107532.161	18138.01	profit
11	Furnishings	91705.1639999999	13059.14	profit
12	Paper	78479.2060000001	34053.57	profit

✅ Query executed successfully.

```
---Q.19  Find the customer with the highest order.
select top 1 customer_name,total_order from
(SELECT customer_name, count(distinct(order_id)) AS total_order
FROM superstore
GROUP BY customer_name)b
ORDER BY total_order DESC
```
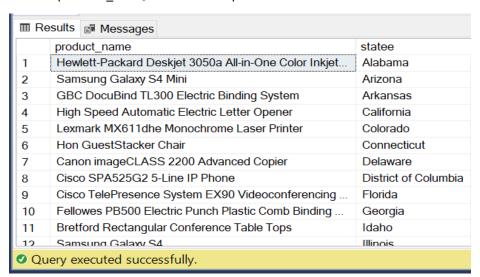
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	customer_name	total_order
1	Emily Phan	17

```
--Q.20 Calculate growth in sales compared to the previous period.
with yearly as(
select year(order_date) years,round(sum(sales),2) sale from superstore group by
year(order_date))
select years,sale,previous_year_diff,case when previous_year_diff< 0 then 'Loss' when
previous_year_diff is null then 'null' else 'growth' end as growth_status from (
select *,sale-lag(sale) over(order by years) previous_year_diff from yearly)b ;
```
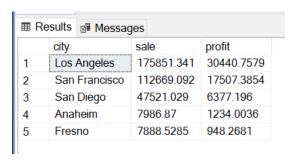
	years	sale	previous_year_diff	growth_status
1	2014	484247.5	NULL	null
2	2015	470532.51	-13714.99	Loss
3	2016	609205.6	138673.09	growth
4	2017	733215.26	124009.66	growth

```
--Q.21 find the state which represents the product with the highest sales in that
state.

with productsale as(
select product_name,statee,rank() over(partition by statee order by sum(sales) desc)
sales from superstore
group by product_name,statee)
select product_name,statee from productsale where sales=1
```

	product_name	statee
1	Hewlett-Packard Deskjet 3050a All-in-One Color Inkjet...	Alabama
2	Samsung Galaxy S4 Mini	Arizona
3	GBC DocuBind TL300 Electric Binding System	Arkansas
4	High Speed Automatic Electric Letter Opener	California
5	Lexmark MX611dhe Monochrome Laser Printer	Colorado
6	Hon GuestStacker Chair	Connecticut
7	Canon imageCLASS 2200 Advanced Copier	Delaware
8	Cisco SPA525G2 5-Line IP Phone	District of Columbia
9	Cisco TelePresence System EX90 Videoconferencing ...	Florida
10	Fellowes PB500 Electric Punch Plastic Comb Binding ...	Georgia
11	Bretford Rectangular Conference Table Tops	Idaho
12	Samsung Galaxy S4	Illinois

Query executed successfully.

```
-- Q.22 top 5 city of california has more sale AND thier profit
select top 5 city,sale,profit from
(select city,sum(sales) sale,sum(profit)profit from superstore where
statee='california' group by city)b
order by sale desc ,profit
```

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	city	sale	profit
1	Los Angeles	175851.341	30440.7579
2	San Francisco	112669.092	17507.3854
3	San Diego	47521.029	6377.196
4	Anaheim	7986.87	1234.0036
5	Fresno	7888.5285	948.2681

--Q 23 find orders with the Longest Shipping Time:
```sql
SELECT order_id,product_name, DATEDIFF(day, order_date, ship_date) AS
shipping_duration
FROM superstore
ORDER BY shipping_duration DESC
```

	order_id	product_name	shipping_duration
1	US-2015-108966	Bretford CR4500 Series Slim Rectangular Table	7
2	US-2015-108966	Eldon Fold 'N Roll Cart System	7
3	CA-2014-105893	Stur-D-Stor Shelving, Vertical 5-Shelf: 72"H x 36"W...	7
4	CA-2017-155558	Logitech LS21 Speaker System - PC Multimedia - 2...	7
5	CA-2017-155558	Avery 511	7
6	CA-2016-128867	Hunt PowerHouse Electric Pencil Sharpener, Blue	7
7	CA-2016-128867	Avery Durable Plastic 1" Binders	7
8	US-2017-107272	Avery Durable Slant Ring Binders, No Labels	7
9	US-2017-107272	Trav-L-File Heavy-Duty Shuttle II, Black	7
10	CA-2017-107720	Decoflex Hanging Personal Folder File	7
11	US-2017-124303	Pressboard Covers with Storage Hooks, 9 1/2" x 11...	7
12	US-2017-124303	Wirebound Message Books, 5-1/2 x 4 Forms, 2 or 4	7

Query executed successfully. | DESKT