```sql
--RETRIEVE THE TOTAL NUMBER OF ORDER PLACED .
SELECT COUNT(order_id ) as total_order  from [dbo].[orders]
```

100 % ▾ ◂

⊞ Results   ▤ Messages

	total_order
1	21350

```sql
--CALCULATE THE TOTAL REVENUE GENERATED FROM PIZZA SALES.
SELECT
sum(o.quantity*p.price) as total_sales
from [dbo].[order_details] o
join [dbo].[pizzas] p on o.pizza_id=p.pizza_id
```

100 % ▾ ◁

▦ Results   ▤ Messages

	total_sales
1	817860.05083847

```sql
--IDENTIFY THE HIGHEST PRICED PIZZA.

select top (1) pt.name ,p.price
from [dbo].[pizza_types] pt join [dbo].[pizzas] p on pt.pizza_type_id=p.pizza_type_id
order by p.price desc
```

100 %

Results | **Messages**

	name	price
1	The Greek Pizza	35.9500007629395

```sql
--IDENTIFY THE MOST COMMON PIZZA SIZE ORDER.

select top(1) p.size,count(o.order_details_id) order_count
from [dbo].[pizzas] p join [dbo].[order_details] o
on p.pizza_id=o.pizza_id
group by p.size
order by order_count desc
```

100 %

Results | Messages

	size	order_count
1	L	18526

```sql
--LIST THE TOP 5 MOST ORDERED PIZZA TYPE ALONG WITH THEIR QUANTITTIES.

select top(5) pt.name, sum(o.quantity) quantity
from [dbo].[pizza_types] pt join [dbo].[pizzas] p
on pt.pizza_type_id =p.pizza_type_id
join [dbo].[order_details] o
on o.pizza_id=p.pizza_id
group by pt.name
order by quantity desc
```

100 %

Results | Messages

	name	quantity
1	The Classic Deluxe Pizza	2453
2	The Barbecue Chicken Pizza	2432
3	The Hawaiian Pizza	2422
4	The Pepperoni Pizza	2418
5	The Thai Chicken Pizza	2371

SQLQuery1.sql - LA...T35R19P\asus (65))* + X

```sql
--JOIN THE NECESSARY TABLE TO FIND TOTAL QUANTITY OF EACH PIZZA CATEGORY ORDERED.

select pt.category , sum(od.quantity) quantity
from [dbo].[pizza_types] pt
join [dbo].[pizzas] p
on pt.pizza_type_id=p.pizza_type_id
join [dbo].[order_details] od
on od.pizza_id=p.pizza_id
group by pt.category
order by quantity desc
```

100 %   ▼

▦ Results   ▧ Messages

	category	quantity
1	Classic	14888
2	Supreme	11987
3	Veggie	11649
4	Chicken	11050

SQLQuery1.sql - LA...T35R19P\asus (65))* ⊕ ✕

```sql
--DETERMINE THE DISTRIBUTION OF ORDERS BY HOUR OF THE DAY.
select datepart(hour,[time]) hour, count(order_id) order_count
from [dbo].[orders]
group by datepart(hour,[time])
order by hour
```

100 %   ▼ ◀

⊞ Results   📄 Messages

	hour	order_count
1	9	1
2	10	8
3	11	1231
4	12	2520
5	13	2455
6	14	1472
7	15	1468
8	16	1920
9	17	2336
10	18	2399
11	19	2009
12	20	1642
13	21	1198
14	22	663
15	23	28

```sql
--JOIN RELEVENT TABLES TO FIND THE
--CATEGORY-WISE DISTRIBUTION OF PIZZAS.

select category , count(name) from pizza_types
group by category
```

Results

	category	(No column name)
1	Chicken	6
2	Classic	8
3	Supreme	9
4	Veggie	9

SQLQuery1.sql - LA...T35R19P\asus (65))*   ⌐ ✕

```sql
--GROUP THE ORDERS BY DATE AND CALCULATE THE
--AVERAGE NUMBER OF PIZZAS ORDERED PER DAY.

select avg(quantity) avg_order_per_day from
(select o.date, sum(od.quantity) quantity
from [dbo].[orders] o join [dbo].[order_details] od
on o.order_id=od.order_id
group by o.date) order_quantity;
```

100 % ▼ ◀

⊞ Results 🗗 Messages

	avg_order_per_day
1	138

SQLQuery1.sql - LA...T35R19P\asus (65))* ⊭ ✕

```sql
--DETERMINE THE TOP 3 MOST ORDERED PIZZA TYPE BASED ON REVENUE.

select top (3) pt.name,sum(od.quantity*p.price) revenue
from [dbo].[pizza_types] pt join [dbo].[pizzas] p
on pt.pizza_type_id=p.pizza_type_id
join [dbo].[order_details] od
on od.pizza_id = p.pizza_id
group by pt.name
order by revenue desc
```

100 % ▾ ◀

⊞ Results ▤ Messages

	name	revenue
1	The Thai Chicken Pizza	43434.25
2	The Barbecue Chicken Pizza	42768
3	The California Chicken Pizza	41409.5

```sql
--CALCULATE THE PERCENTAGE CONTRIBUTION OF
--EACH PIZZA TYPE BASED ON REVENUE.

select pt.category, (sum(od.quantity*p.price) /(select
sum(od.quantity*p.price)
from [dbo].[order_details] od join [dbo].[pizzas] p
on od.pizza_id=p.pizza_id))*100 revenue
from [dbo].[pizza_types] pt join [dbo].[pizzas] p
on pt.pizza_type_id=p.pizza_type_id
join [dbo].[order_details] od
on od.pizza_id=p.pizza_id
group by pt.category
order by revenue desc
```

100 %

Results **Messages**

	category	revenue
1	Classic	26.9059602306976
2	Supreme	25.4563112111462
3	Chicken	23.9551375322885
4	Veggie	23.6825910258677

SQLQuery1.sql - LA...T35R19P\asus (65))* ☐ ✕

```sql
--ANALYZE THE CUMMALATIVE REVENUE GENERATED OVER TIME.

select date,sum(revenue) over(order by date) cum_revenue from
(select o.date, sum(od.quantity*p.price) as revenue
from [dbo].[order_details] od join [dbo].[pizzas] p
on od.pizza_id=p.pizza_id
join [dbo].[orders] o
on o.order_id=od.order_id
group by o.date)  sales;
```

100 %   ▼ ◀

⊞ Results 🛢 Messages

	date	cum_revenue
1	2015-01-01	2713.85000228882
2	2015-01-02	5445.7500038147
3	2015-01-03	8108.15000724792
4	2015-01-04	9863.60000801086
5	2015-01-05	11929.5500087738
6	2015-01-06	14358.5000114441
7	2015-01-07	16560.700012207
8	2015-01-08	19399.0500183105
9	2015-01-09	21526.4000225067
10	2015-01-10	23990.350025177
11	2015-01-11	25862.6500263214
12	2015-01-12	27781.7000274658
13	2015-01-13	29831.3000278473
14	2015-01-14	32358.7000293732
15	2015-01-15	34343.5000324249
16	2015-01-16	36937.6500339508
17	2015-01-17	39001.7500343323

✅ Query executed successfully.

SQLQuery1.sql - LA...T35R19P\asus (65))* ⊐ ✕

```sql
--DETERMINE THE TOP 3 MOST ORDERED PIZZA TYPE
--BASED ON REVENUE FOR EACH PIZZA CATEGORY.

select name, revenue from
(select category , name, revenue,
rank() over(partition by category order by revenue desc) as rnk
from
(SELECT pt.category , pt.name,
sum(od.quantity*p.price) revenue
from [dbo].[pizza_types] pt
join [dbo].[pizzas] p
on pt.pizza_type_id=p.pizza_type_id
join [dbo].[order_details] od
on od.pizza_id=p.pizza_id
group by pt.category , pt.name) a) b
where rnk<=3;
```

100 % ▼ ◀

▦ Results ▥ Messages

	name	revenue
1	The Thai Chicken Pizza	43434.25
2	The Barbecue Chicken Pizza	42768
3	The California Chicken Pizza	41409.5
4	The Classic Deluxe Pizza	38180.5
5	The Hawaiian Pizza	32273.25
6	The Pepperoni Pizza	30161.75
7	The Spicy Italian Pizza	34831.25
8	The Italian Supreme Pizza	33476.75
9	The Sicilian Pizza	30940.5
10	The Four Cheese Pizza	32265.7010040283
11	The Mexicana Pizza	26780.75
12	The Five Cheese Pizza	26066.5