SQL Pizza Analysis

First 20 Rows of Pizza Table

```sql
select * from pizza_sales
```

	pizza_id	order_id	pizza_name_id	quantity	order_date	order_time	unit_price	total_price	pizza_size	pizza_category	pizza_ingredients	pizza_name
1	1	1	hawaiian_m	1	2015-01-01	11:38:36.0000000	13.25	13.25	M	Classic	Sliced Ham, Pineapple, Mozzarella Cheese	The Hawaiian Pizza
2	2	2	classic_dlx_m	1	2015-01-01	11:57:40.0000000	16	16	M	Classic	Pepperoni, Mushrooms, Red Onions, Red Peppers, B...	The Classic Deluxe Pizza
3	3	2	five_cheese_l	1	2015-01-01	11:57:40.0000000	18.5	18.5	L	Veggie	Mozzarella Cheese, Provolone Cheese, Smoked Goud...	The Five Cheese Pizza
4	4	2	ital_supr_l	1	2015-01-01	11:57:40.0000000	20.75	20.75	L	Supreme	Calabrese Salami, Capocollo, Tomatoes, Red Onions, ...	The Italian Supreme Pizza
5	5	2	mexicana_m	1	2015-01-01	11:57:40.0000000	16	16	M	Veggie	Tomatoes, Red Peppers, Jalapeno Peppers, Red Onio...	The Mexicana Pizza
6	6	2	thai_ckn_l	1	2015-01-01	11:57:40.0000000	20.75	20.75	L	Chicken	Chicken, Pineapple, Tomatoes, Red Peppers, Thai Sw...	The Thai Chicken Pizza
7	7	3	ital_supr_m	1	2015-01-01	12:12:28.0000000	16.5	16.5	M	Supreme	Calabrese Salami, Capocollo, Tomatoes, Red Onions, ...	The Italian Supreme Pizza
8	8	3	prsc_argla_l	1	2015-01-01	12:12:28.0000000	20.75	20.75	L	Supreme	Prosciutto di San Daniele, Arugula, Mozzarella Cheese	The Prosciutto and Arugula Pizza
9	9	4	ital_supr_m	1	2015-01-01	12:16:31.0000000	16.5	16.5	M	Supreme	Calabrese Salami, Capocollo, Tomatoes, Red Onions, ...	The Italian Supreme Pizza
10	10	5	ital_supr_m	1	2015-01-01	12:21:30.0000000	16.5	16.5	M	Supreme	Calabrese Salami, Capocollo, Tomatoes, Red Onions, ...	The Italian Supreme Pizza
11	11	6	bbq_ckn_s	1	2015-01-01	12:29:36.0000000	12.75	12.75	S	Chicken	Barbecued Chicken, Red Peppers, Green Peppers, To...	The Barbecue Chicken Pizza
12	12	6	the_greek_s	1	2015-01-01	12:29:36.0000000	12	12	S	Classic	Kalamata Olives, Feta Cheese, Tomatoes, Garlic, Beef ...	The Greek Pizza
13	13	7	spinach_supr_s	1	2015-01-01	12:50:37.0000000	12.5	12.5	S	Supreme	Spinach, Red Onions, Pepperoni, Tomatoes, Artichoke...	The Spinach Supreme Pizza
14	14	8	spinach_supr_s	1	2015-01-01	12:51:37.0000000	12.5	12.5	S	Supreme	Spinach, Red Onions, Pepperoni, Tomatoes, Artichoke...	The Spinach Supreme Pizza
15	15	9	classic_dlx_s	1	2015-01-01	12:52:01.0000000	12	12	S	Classic	Pepperoni, Mushrooms, Red Onions, Red Peppers, B...	The Classic Deluxe Pizza
16	16	9	green_garden_s	1	2015-01-01	12:52:01.0000000	12	12	S	Veggie	Spinach, Mushrooms, Tomatoes, Green Olives, Feta C...	The Green Garden Pizza
17	17	9	ital_cpcllo_l	1	2015-01-01	12:52:01.0000000	20.5	20.5	L	Classic	Capocollo, Red Peppers, Tomatoes, Goat Cheese, Gar...	The Italian Capocollo Pizza
18	18	9	ital_supr_l	1	2015-01-01	12:52:01.0000000	20.75	20.75	L	Supreme	Calabrese Salami, Capocollo, Tomatoes, Red Onions, ...	The Italian Supreme Pizza
19	19	9	ital_supr_s	1	2015-01-01	12:52:01.0000000	12.5	12.5	S	Supreme	Calabrese Salami, Capocollo, Tomatoes, Red Onions, ...	The Italian Supreme Pizza
20	20	9	mexicana_s	1	2015-01-01	12:52:01.0000000	12	12	S	Veggie	Tomatoes, Red Peppers, Jalapeno Peppers, Red Onio...	The Mexicana Pizza

Basic Data Exploration

```sql
select count(*) as total_row from pizza_sales;
```
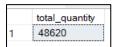
	total_row
1	48620

```sql
select distinct pizza_size from pizza_sales
```

	pizza_size
1	S
2	L
3	XL
4	XXL
5	M

```sql
select distinct pizza_category from pizza_sales
```

	pizza_category
1	Chicken
2	Supreme
3	Classic
4	Veggie

```sql
select count(quantity) as total_quantity from pizza_Sales
```

	total_quantity
1	48620

```sql
--Question_1 --> Total Revenue
select round(sum(quantity*unit_price),2) as total_Revenue from pizza_Sales
```

	total_Revenue
1	817860.05

```sql
--Question_2 --> Average Order Value
Select round(sum(total_price)/count(distinct order_id),3) as avg_order_val from pizza_sales;
```

	avg_order_val
1	38.307

```sql
--Quesion_3 --> Total Pizza Sold
select sum(quantity) as total_pizza_sold from pizza_sales
```

	total_pizza_sold
1	49574

```sql
--Quesion_4 --> Total Order Placed
select count(distinct order_id) as total_order_paced from pizza_sales
```

	total_order_paced
1	21350

```sql
--Question_5 --> Average Pizza's Per Order
select cast(cast(sum(quantity) as decimal (10,2))/count(distinct order_id) as
decimal(10,2))
as average_pizza_order from pizza_sales
```

	total_order_paced
1	21350

```sql
--select day(order_date) as day, cast(count(order_id) as decimal(10,2)) as
daily_Sales_trend
--from pizza_sales group by day(order_date) order by day desc

--Question_6 --> Daily Trend for total sales
select DATENAME(DW,order_date) as order_day, count(distinct order_id) as order_count
from pizza_sales group by DATENAME(DW,order_date)
 --Datename(DW, column_name) --> days_name
```

	order_day	order_count
1	Saturday	3158
2	Wednesday	3024
3	Monday	2794
4	Sunday	2624
5	Friday	3538
6	Thursday	3239
7	Tuesday	2973

```sql
--Question_7 --> Hourly Trend For Total Order
select datepart(hour,order_time) as order_hour, count(order_id) as hourly_trend
from pizza_sales group by datepart(hour,order_time) order by datepart(hour,order_time)
asc
```

	order_hour	hourly_trend
1	9	4
2	10	17
3	11	2672
4	12	6543
5	13	6203
6	14	3521
7	15	3170
8	16	4185
9	17	5143
10	18	5359
11	19	4350
12	20	3487
13	21	2528
14	22	1370
15	23	68

```
----Question_8 --> Percentage of Sales by Pizza Category

--select pizza_category, cast((sum(total_price)/count(pizza_category))/100 as
decimal(10,2))
--as percentage_sales_by_category from pizza_sales
--group by pizza_category

select pizza_category, round(sum(total_price),2) as total_sales,
round((sum(total_price) / (Select sum(total_price) from pizza_sales))* 100,2)
as percentage_sales_by_category
from pizza_Sales group by pizza_category
```

	pizza_category	total_sales	percentage_sales_by_category
1	Chicken	195919.5	23.96
2	Supreme	208197	25.46
3	Classic	220053.1	26.91
4	Veggie	193690.45	23.68

```
--Question_9 --> Percentage of sales by pizza size
select pizza_size, round((sum(total_price)/(Select sum(total_price)
from pizza_sales))*100,2) as precentage_sales_by_pizza_size
from pizza_Sales group by pizza_size
```

	pizza_size	precentage_sales_by_pizza_size
1	S	21.77
2	L	45.89
3	XL	1.72
4	XXL	0.12
5	M	30.49

```
--Question_10 --> Total Pizzas sold by pizza category
select pizza_category, round(sum(total_price),2) as pizza_sold_by_category
from pizza_sales
group by pizza_category
```

	pizza_category	pizza_sold_by_category
1	Chicken	195919.5
2	Supreme	208197
3	Classic	220053.1
4	Veggie	193690.45

```
--Question_11 --> Top 5 best sellers by total pizza sold
select Top 5 pizza_name, sum(quantity)as Top_5_pizza_sold from pizza_sales
group by pizza_name order by Top_5_pizza_sold desc;
```

	pizza_name	Top_5_pizza_sold
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

```sql
--Question_12 --> bottom 5 worst sellers by total pizza sold
select top 5 pizza_name, sum(quantity) as Bottom_5_pizza_sold from pizza_sales
group by pizza_name order by Bottom_5_pizza_sold asc;
```

	pizza_name	Bottom_5_pizza_sold
1	The Brie Carre Pizza	490
2	The Mediterranean Pizza	934
3	The Calabrese Pizza	937
4	The Spinach Supreme Pizza	950
5	The Soppressata Pizza	961