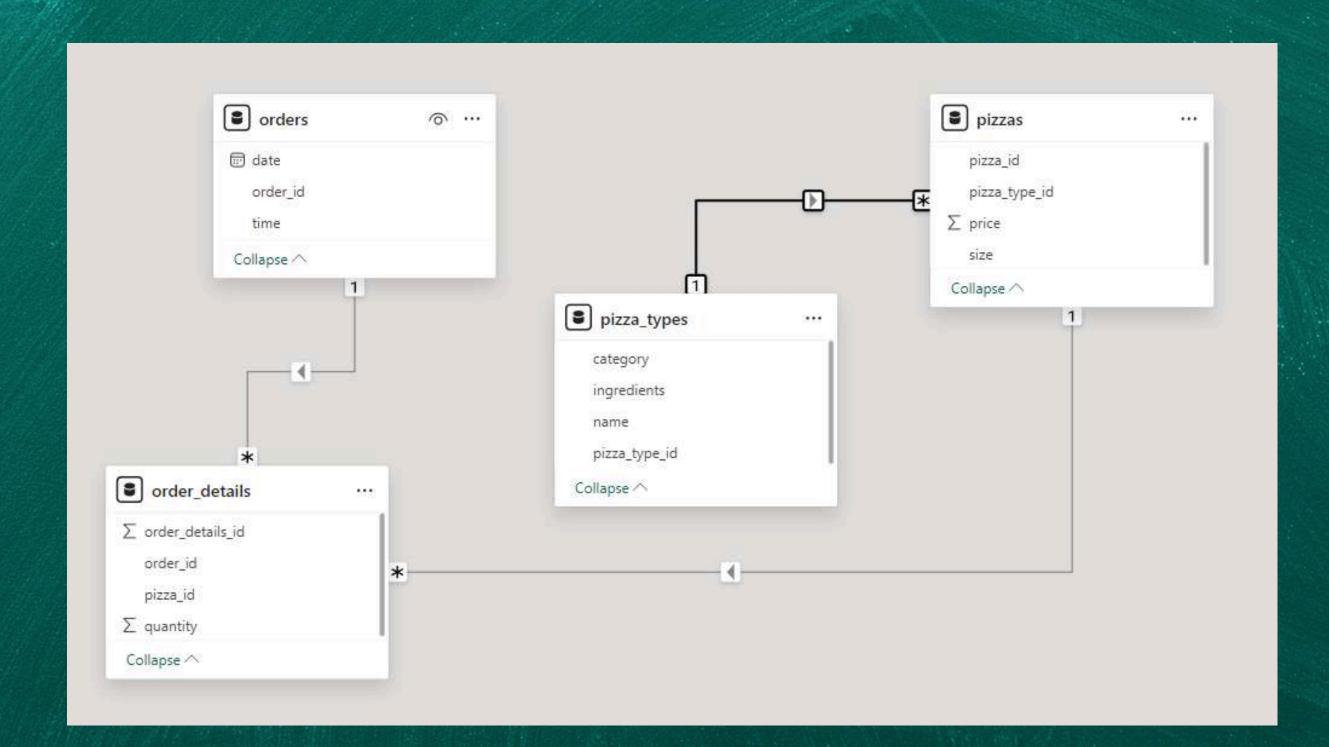


HEY, EVERYONE. THIS ALAYSIS WAS DONE
BASED ON PIZZA SALES QUESTIONS USING SQL
IN 3 LEVELS SUCH AS BASIC, INTERMEDIATE
AND ADVANCED



DAS GENERAL

RETRIET THE TOTAL AUMBER OF ORDERS PLAGED

SELECT

COUNT(order_id) AS total_orders

FROM

pizzahut.orders;



GALGULATE THE TOTAL REVENUE GENERATED FROM PIZZA

```
select round(sum(orders_details.quantity * pizzas.price),2) as total_sales
from orders_details
Join pizzas
ON pizzas.pizza_id = orders_details.pizza_id
```



DEATIFY THE HIGHEST-PAGED PIZZA

```
select pizza_types.name, pizzas.price
from pizza_types join pizzas
on pizza_types.pizza_type_id = pizzas.pizza_type_id
order by pizzas.price desc
limit 1;
```

Re	esult Grid	Filter Rows:
	name	price
۶	The Greek Pizza	35.95

DENTIFY THE WOST GOWWON PIZZASZE ORDERED

```
select pizzas.size, count(orders_details.order_details_id) as order_count
from pizzas join orders_details
on pizzas.pizza_id = orders_details.pizza_id
group by pizzas.size
order by order_count desc;
```

	size	order_count
>	L	18526
	M	15385
	S	14137
	XL	544
	XXL	28

LST THE TOP 5 MOST ORDERED PIZZA TYPES ALONG WITH THER QUANTITIES

```
select pizza_types.name,
sum(orders_details.quantity) as quantity
from pizza_types join pizzas
on pizza_types.pizza_type_id = pizzas.pizza_type_id
join orders_details
on orders_details.pizza_id = pizzas.pizza_id
group by pizza_types.name
order by quantity desc
limit 5;
```

	name	quantity
>	The Classic Deluxe Pizza	2453
	The Barbecue Chicken Pizza	2432
	The Hawaiian Pizza	2422
	The Pepperoni Pizza	2418
	The Thai Chicken Pizza	2371



JOIN THE NECESSARY TABLES TO FIND THE TOTAL QUANTITY OF EACH PIZZA CATEGORY ORDERED

```
select pizza_types.category, sum(orders_details.quantity) as quantity
from pizza_types
join pizzas
on pizza_types.pizza_type_id = pizzas. pizza_type_id
join orders_details
on orders_details.pizza_id = pizzas.pizza_id
group by pizza_types.category
order by quantity desc;
```

	category	quantity
•	Classic	14888
	Supreme	11987
	Veggie	11649
	Chicken	11050

DETERMINE THE DISTRIBUTION OF ORDERS BY HOUR OF THE DAY

```
select hour(order_time) as hour, count(order_id) as order_count
from orders
group by hour(order_time);
```

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

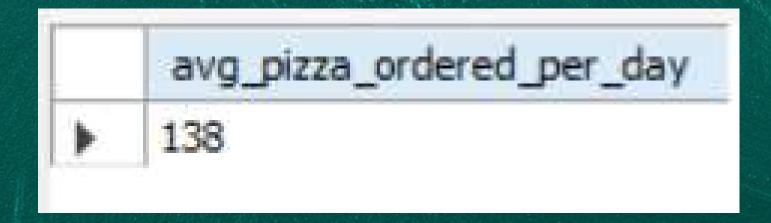
JOIN RELEVANT TABLES TO FIND THE CATEGORY-WISE DISTRIBUTION OF PIZZAS

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

	category	count(name)
Þ	Chicken	6
	Classic	8
	Supreme	9
	Veggie	9

GROUP THE ORDERS BY DATE AND CALCULATE THE AVERAGE NUMBER OF PIZZAS ORDERED PER DAY

```
select round(avg(quantity),0) as avg_pizza_ordered_per_day from
  (select orders.order_date, sum(orders_details.quantity) as quantity
  from orders join orders_details
  on orders.order_id = orders_details.order_id
  group by orders.order_date) as order_quantity;
```



DETERMINE THE TOP 3 MOST ORDERED PIZZA TYPES BASED ON REVENUE

```
select pizza_types.name,
sum(orders_details.quantity*pizzas.price) as revenue
from pizza_types
join pizzas
on pizzas.pizza_type_id = pizza_types.pizza_type_id
join orders_details
on orders_details.pizza_id = pizzas.pizza_id
group by pizza_types.name
order by revenue desc
limit 3;
```

	name	revenue
١	The Thai Chicken Pizza	43434.25
	The Barbecue Chicken Pizza	42768
	The California Chicken Pizza	41409.5

CALCULATE THE PERCENTAGE CONTRIBUTION OF EACH PIZZA TYPE TO TOTAL REVENUE

```
select pizza_types.category,
round(sum(orders_details.quantity*pizzas.price) / (Select round(sum(orders_details.quantity*pizzas.price),2) as total_sales
from orders_details

JOIN pizzas
on pizzas.pizza_id = orders_details.pizza_id)*100,2) as revenue
from pizza_types
join pizzas
on pizza_types.pizza_type_id = pizzas.pizza_type_id
join orders_details
on orders_details.pizza_id = pizzas.pizza_id
group by pizza_types.category
order by revenue desc;
```

	category	revenue
▶	Classic	26.91
	Supreme	25.46
	Chicken	23.96
	Veggie	23.68

ANALYZETHE CUMULATIVE REVENUE GENERATED OVER TIME

```
select order_date,
sum(revenue) over(order by order_date) as cum_revenue
from
(select orders.order_date,
sum(orders_details.quantity*pizzas.price) as revenue
from orders_details
join pizzas
on orders_details.pizza_id = pizzas.pizza_id
join orders
on orders.order_id = orders_details.order_id
group by orders.order_date) as sales;
```

	order_date	cum_revenue
Þ	2015-01-01	2713.85000000000004
	2015-01-02	5445.75
	2015-01-03	8108.15
	2015-01-04	9863.6
	2015-01-05	11929.55
	2015-01-06	14358.5
	2015-01-07	16560.7
	2015-01-08	19399.05
	2015-01-09	21526.4
	2015-01-10	23990.3500000000002
	2015-01-11	25862.65
	2015-01-12	27781.7
	2015-01-13	29831.3000000000003

DETERMINE THE TOP 3 MOST ORDERED PIZZA TYPES 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 rn
from
(select pizza types.category, pizza types.name,
sum((orders_details.quantity) * pizzas.price) as revenue
from pizza types
join pizzas
on pizza_types.pizza_type_id = pizzas.pizza_type_id
join orders_details
on orders_details.pizza_id = pizzas.pizza_id
group by pizza types.category, pizza types.name) as a) as b
where rn <= 3;
```

	name	revenue
>	The Thai Chicken Pizza	43434.25
	The Barbecue Chicken Pizza	42768
	The California Chicken Pizza	41409.5
	The Classic Deluxe Pizza	38180.5
	The Hawaiian Pizza	32273.25
	The Pepperoni Pizza	30161.75
	The Spicy Italian Pizza	34831.25
	The Italian Supreme Pizza	33476.75
	The Sicilian Pizza	30940.5
	The Four Cheese Pizza	32265.70000000065
	The Mexicana Pizza	26780.75
	The Five Cheese Pizza	26066.5