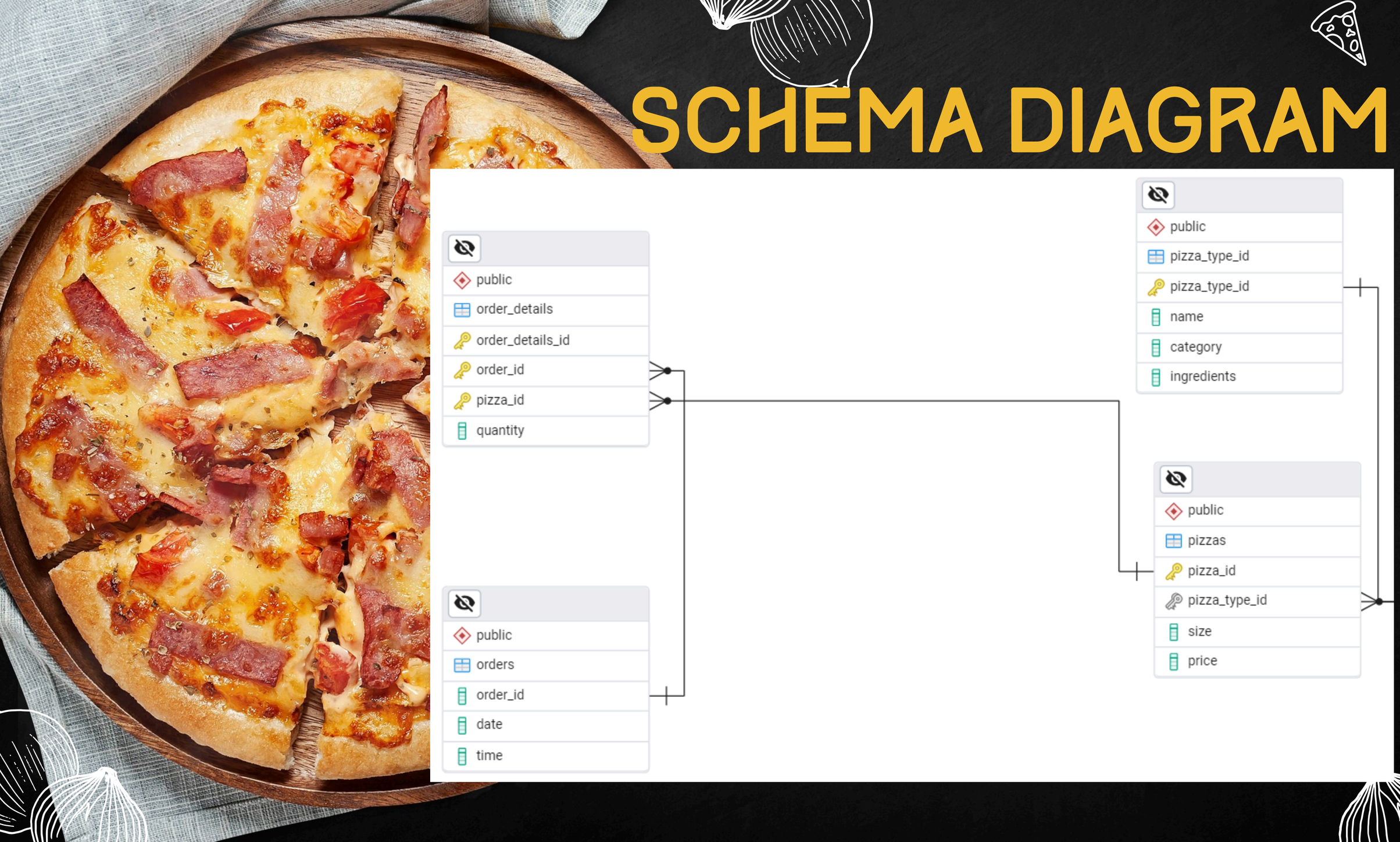
HELLO

My name is Mangesh Sambare, and in this project I have used SQL queries to solve questions related to pizza sales.

SCHEMA DIAGRAM



1) RETRIEVE THE TOTAL NUMBER OF ORDERS PLACED.

```
 9
10  select
11      count(order_id) as total_order
12  from
13      orders;
```

	total_order bigint
1	21350

2) CALCULATE THE TOTAL REVENUE GENERATED FROM PIZZA SALES..

```
17
18  select
19      round(sum(order_details.quantity * pizzas.price),2) as total_revenue
20  from
21      order_details join pizzas
22  on pizzas.pizza_id = order_details.pizza_id
```

	total_revenue numeric
1	817860.05

3) IDENTIFY THE HIGHEST-PRICED PIZZA..

```sql
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;
```

	name text	price numeric (10,2)
1	The Greek Pizza	35.95

4) IDENTIFY THE MOST COMMON PIZZA SIZE ORDERED..

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

	size character varying (10)	order_count bigint
1	L	18526
2	M	15385
3	S	14137
4	XL	544
5	XXL	28

5) LIST THE TOP 5 MOST ORDERED PIZZA TYPES ALONG WITH THEIR QUANTITIES..

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

	name text	quantity bigint
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

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

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

	category character varying (50)	quantity bigint
1	Classic	14888
2	Supreme	11987
3	Veggie	11649
4	Chicken	11050

7) DETERMINE THE DISTRIBUTION OF ORDERS BY HOUR OF THE DAY..

```sql
select
    extract(hour from time) as order_by_hours, count(order_id) as order_count
from orders
group by extract(hour from time) order by order_by_hours asc;
```

	order_by_hours numeric	order_count bigint
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

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

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

	category character varying (50)	count bigint
1	Supreme	9
2	Chicken	6
3	Classic	8
4	Veggie	9

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

```sql
select
    round(avg(quantity),0) as avg_pizza_order_by_perday
from
    (select
        orders.date, sum(order_details.quantity) as quantity
    from orders join order_details
    on orders.order_id = order_details.order_id
    group by orders.date)
as order_quantity
```

Data Output | Messages | Notifications

	avg_pizza_order_by_perday numeric
1	138

10) DETERMINE THE TOP 3 MOST ORDERED PIZZA TYPES BASED ON REVENUE.

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

Data Output | Messages | Notifications

	name text	revenue numeric
1	The Thai Chicken Pizza	43434.25
2	The Barbecue Chicken Pizza	42768.00
3	The California Chicken Pizza	41409.50

11) CALCULATE THE PERCENTAGE CONTRIBUTION OF EACH PIZZA TYPE TO TOTAL REVENUE.

```sql
select pizza_types.category,
    round(sum(order_details.quantity * pizzas.price)/
    (select round(sum(order_details.quantity *pizzas.price),2)
    as total_sales
from order_details
join pizzas
on pizzas.pizza_id =order_details.pizza_id)*100,2) as revenue
from pizza_types join pizzas
on pizza_types.pizza_type_id = pizzas.pizza_type_id
join order_details
on order_details.pizza_id = pizzas.pizza_id
group by pizza_types.category order by revenue desc;
```

	category character varying (50)	revenue numeric
1	Classic	26.91
2	Supreme	25.46
3	Chicken	23.96
4	Veggie	23.68

12) ANALYZE THE CUMULATIVE REVENUE GENERATED OVER TIME.

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

	date date	cum_revenue numeric
1	2015-01-01	2713.85
2	2015-01-02	5445.75
3	2015-01-03	8108.15
4	2015-01-04	9863.60
5	2015-01-05	11929.55
6	2015-01-06	14358.50
7	2015-01-07	16560.70
8	2015-01-08	19399.05
9	2015-01-09	21526.40
10	2015-01-10	23990.35
11	2015-01-11	25862.65
12	2015-01-12	27781.70
13	2015-01-13	29831.30
14	2015-01-14	32358.70
15	2015-01-15	34343.50
16	2015-01-16	36937.65
17	2015-01-17	39001.75
18	2015-01-18	40978.60
19	2015-01-19	43365.75
20	2015-01-20	45763.65

13) DETERMINE THE TOP 3 MOST ORDERED PIZZA TYPES BASED ON REVENUE FOR EACH PIZZA CATEGORY.

```sql
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((order_details.quantity)*pizzas.price) as revenue
        from pizza_types join pizzas
        on pizza_types.pizza_type_id = pizzas.pizza_type_id
        join order_details
        on order_details.pizza_id = pizzas.pizza_id
        group by pizza_types.category, pizza_types.name)
        as a)
    as b
where rn <=3;
```

	name text	revenue numeric
1	The Thai Chicken Pizza	43434.25
2	The Barbecue Chicken Pizza	42768.00
3	The California Chicken Pizza	41409.50
4	The Classic Deluxe Pizza	38180.50
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	30940.50
10	The Four Cheese Pizza	32265.70
11	The Mexicana Pizza	26780.75
12	The Five Cheese Pizza	26066.50

THANK YOU

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