



Pizzas		
Pizza_id	Varchar	
Pizza_type_id	Varchar	
Size	Varchar	
Price	Int	

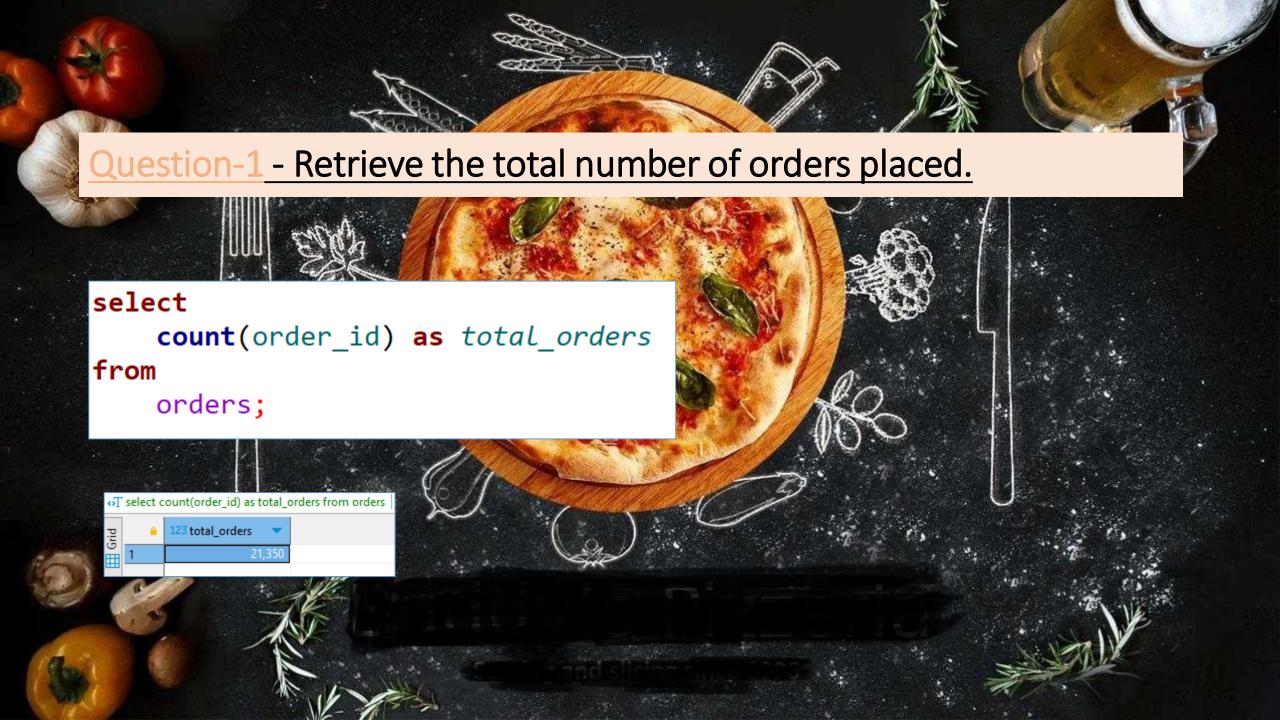
Order_details			
Order_details_id	Int		
Order_id	Int		
Pizza_id	Varchar		
Quantity	Int		

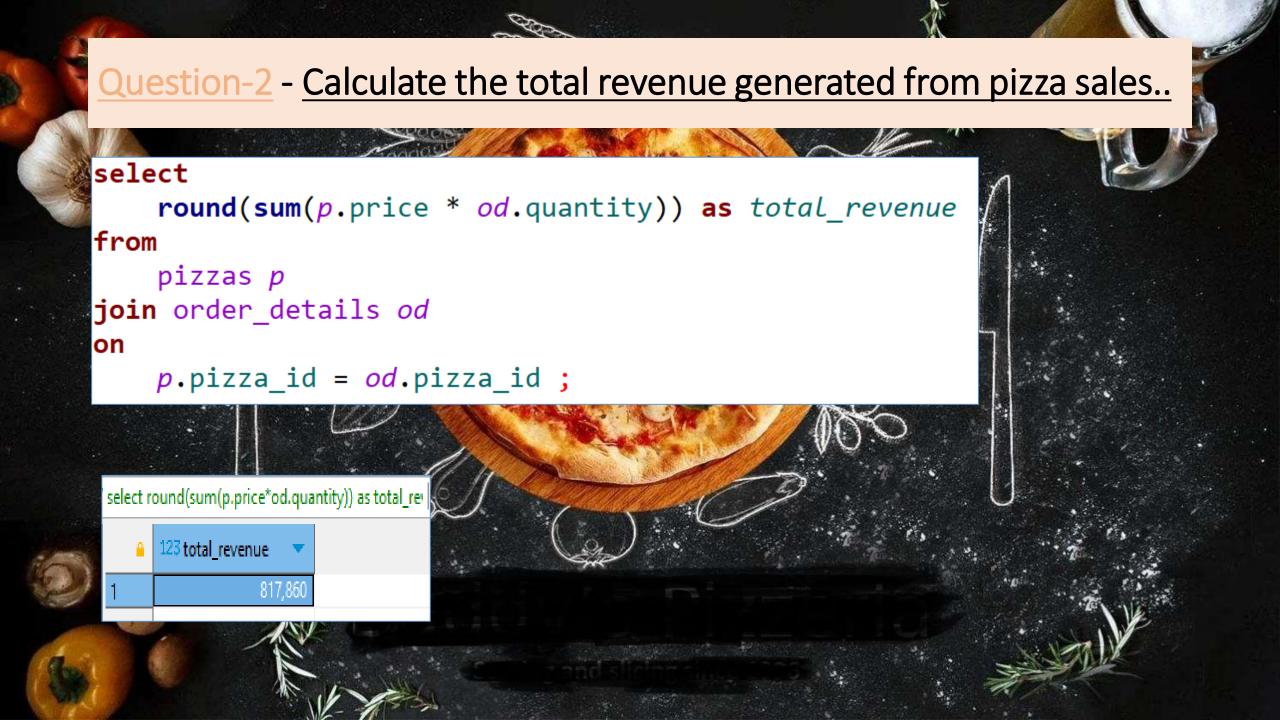
Pizza_types		
pizza_type_id	Varchar	
Name	Varchar	
Category	Varchar	
Ingredients	Varchar	

Orders		
Order_id	Int	
Order_date	Date	
Order_time	Time	

Problems to be addressed

- Retrieve the total number of orders placed.
- Calculate the total revenue generated from pizza sales.
- > Identify the highest-priced pizza.
- >Identify the most common pizza size ordered.
- >List the top 5 most ordered pizza types along with their quantities.
- > Join the necessary tables to find the total quantity of each pizza category ordered.
- Determine the distribution of orders by hour of the day.
- >Join relevant tables to find the category-wise distribution of pizzas.
- Group the orders by date and calculate the average number of pizzas ordered per day.
- Determine the top 3 most ordered pizza types based on revenue
- Calculate the percentage contribution of each pizza type to total revenue.
- >Analyze the cumulative revenue generated over time.
- Determine the top 3 most ordered pizza types based on revenue for each pizza category.





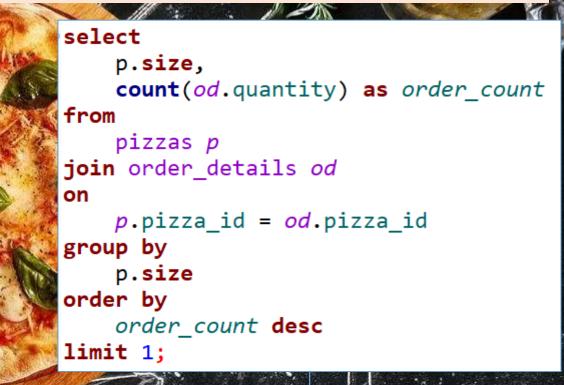
Question-3 - Identify the highest-priced pizza.

```
select
                                          select
    pt.name,
                                               pt.name,
    p.price
                                               p.price
from
    pizzas p
                                          from
join pizza_types pt
                                               pizzas p
on
                                          join pizza_types pt
    p.pizza_type_id = pt.pizza_type_id
where
                                          on
    p.price = (
                                               p.pizza_type_id = pt.pizza_type_id
                 select
                                          order by
                     max(price)
                 from
                                               p.price desc
                     pizzas p2);
                                           limit 1;
```



Question-4 - Identify the most common pizza size ordered.

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

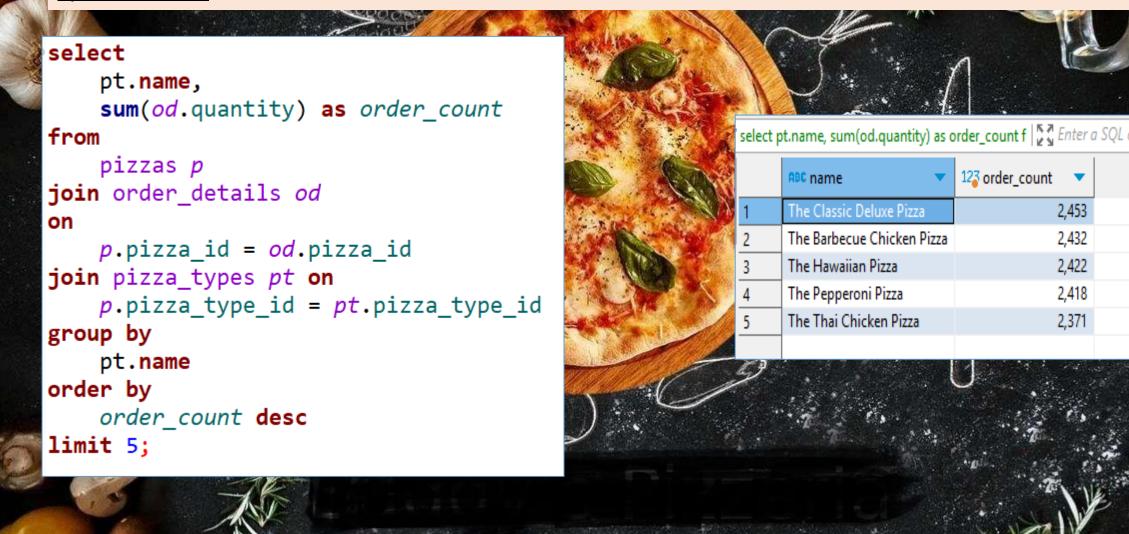


elect	p.size,	count(o	d.quantity)	as c	order_	count f	rc
			_				

	ABC size 🔻	12♂ order_count ▼	
1	L	18,526	
2	М	15,385	
3	S	14,137	
4	XL	544	
5	XXL	28	



Question-5 - List the top 5 most ordered pizza types along with their quantities.



2,453

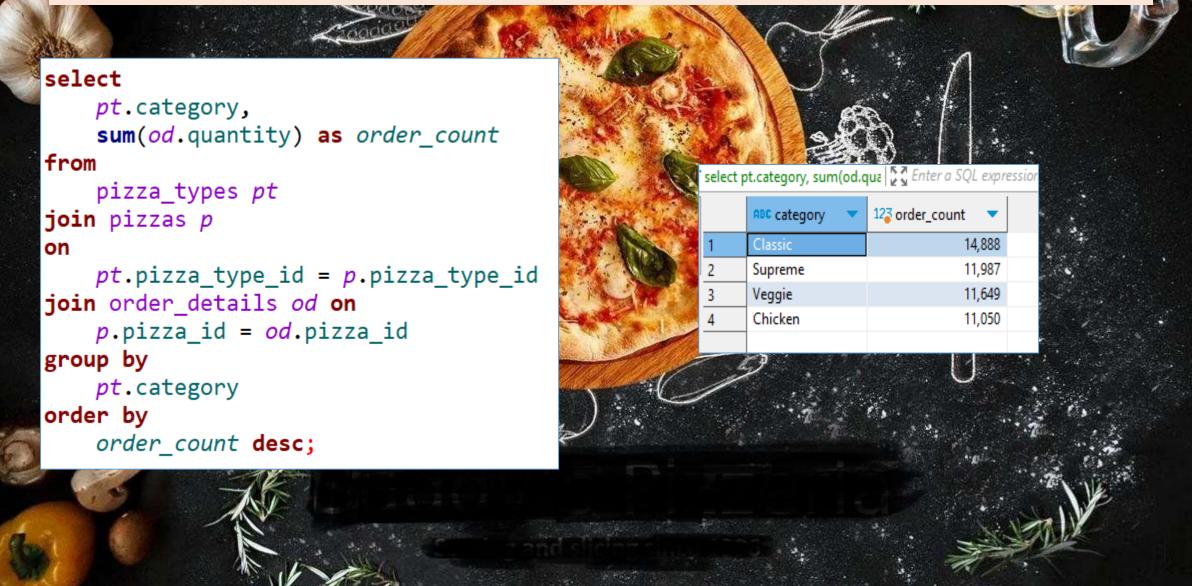
2,432

2,422

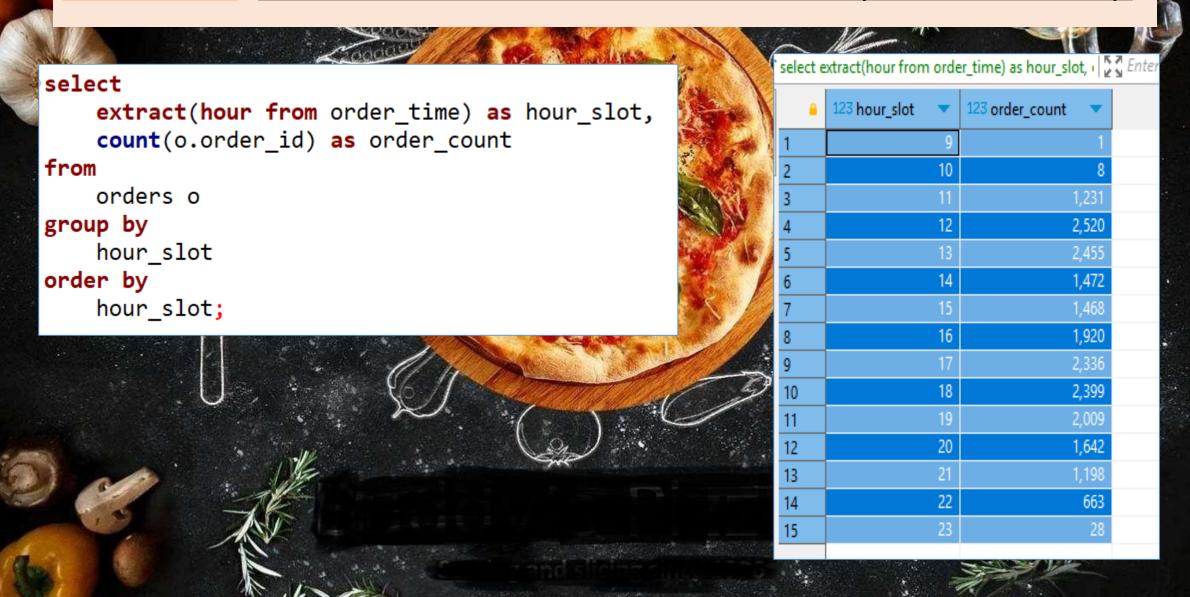
2,418

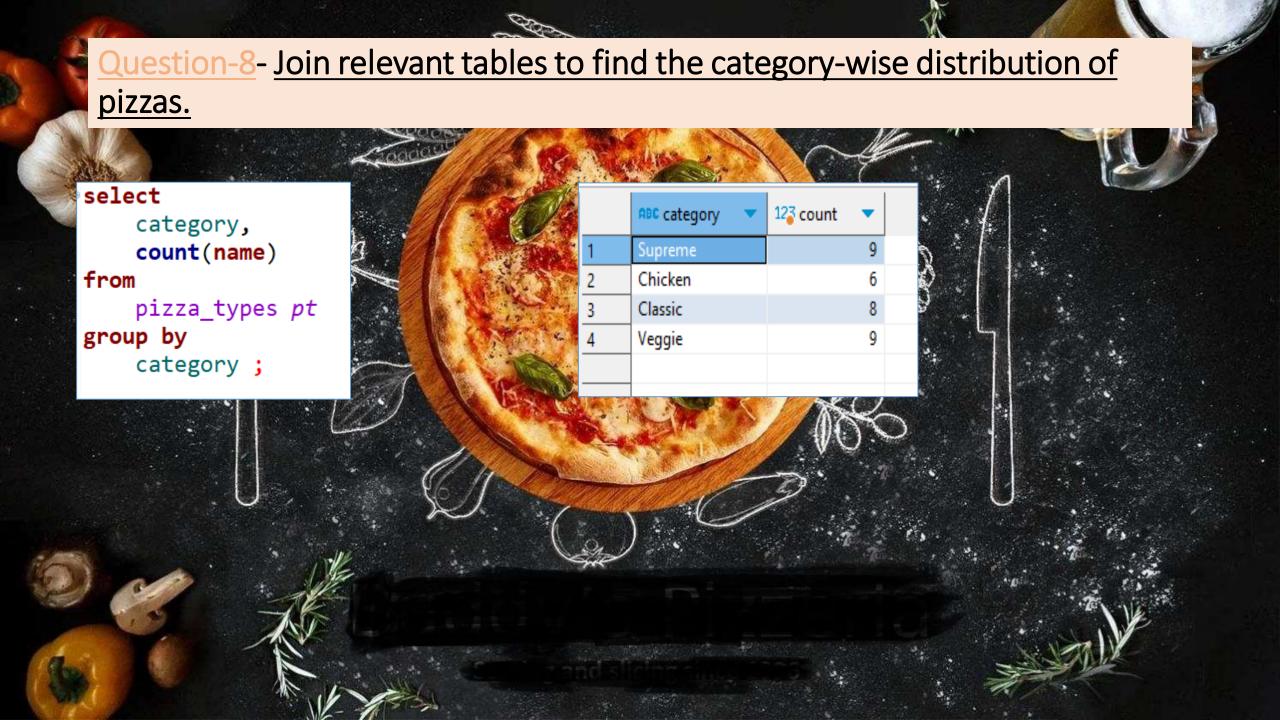
2.371

<u>Question-6</u> - <u>Join the necessary tables to find the total quantity of each pizza category ordered.</u>



Question-7- Determine the distribution of orders by hour of the day.





Question-9- Group the orders by date and calculate the average number of pizzas ordered per day.

```
select
    round(avg(total_sale_per_day)) as average_pizzas_ordered_per_day
from
    (
    select
        o.order_date as date_slot,
        sum(quantity) as total_sale_per_day
    from
        orders o
    join order_details od
    on
        o.order_id = od.order_id
        group by
        o.order_date
        order by
        o.order_date) a;
```

Final Query Result

Inner/Sub-Query Query Result

123 average_pizzas_ordered_per_day

138

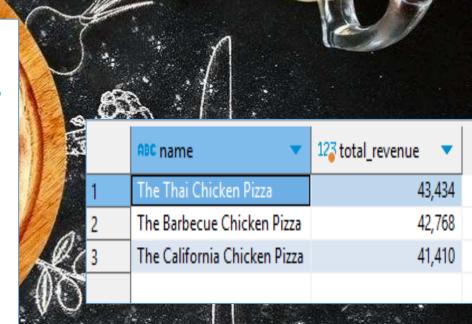
. 1	1	2015-01-01		162
1	2	2015-01-02		165
	3	2015-01-03		158
	4	2015-01-04		106
	5	2015-01-05		125
2	6	2015-01-06		147
K	7	2015-01-07		138
	8	2015-01-08		173
	9	2015-01-09		127
	10	2015-01-10		146
	11	2015-01-11		116
	12	2015-01-12		119
${\cal P}$	13	2015-01-13		120
1	14	2015-01-14		150
	15	2015-01-15		123
٦	16	2015-01-16		158
J	17	2015-01-17		125
	18	2015-01-18		122
	19	2015-01-19		142
	20	2015-01-20		143
	21	2015-01-21		129
Ž,	22	2015-01-22		158
	23	2015-01-23		152
	24	2015-01-24		142
	25	2015-01-25		102
	26	2015-01-26		113
	27	2015-01-27		151
	28	2015-01-28		118
SSE	29	2015-01-29		119
	30	2015-01-30		138
	31	2015-01-31		145
	22	2015 02 01	N. O. Berry	101

123 total_sale_per_day

date_slot

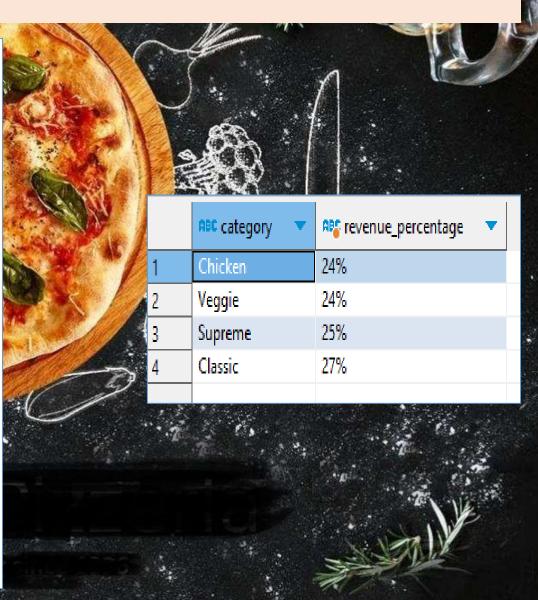
Question-10- Determine the top 3 most ordered pizza types based on revenue.

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



Question-11 - Calculate the percentage contribution of each pizza type to total revenue.

```
select
    pt.category as category,
    (round(((round(sum(p.price * od.quantity)) / (
            select
                round(sum(p2.price * od2.quantity))
            from
                pizzas p2
            join order details od2
            on
                p2.pizza_id = od2.pizza_id)))* 100)|| '%')
            as revenue_percentage
from
    pizzas p
join order_details od
   p.pizza_id = od.pizza_id
join pizza_types pt
   p.pizza_type_id = pt.pizza_type_id
group by
   category
order by
    revenue_percentage;
```



Question-12- Analyze the cumulative revenue generated over time.

```
select
    order_date,
    sum(revenue) over(
    order by order_date) as cumulative_revenue
from
    select
        o.order_date,
        round(sum(p.price * od.quantity)) as revenue
    from
        pizzas p
    join order_details od
on
        p.pizza_id = od.pizza_id
    join orders o
on
        od.order id = o.order id
    group by
        o.order date
    order by
        o.order_date) as revenue_data;
```

	Me	7.
	order_date	123 cumulative_revenue 🔻
	2015-01-01	2,714
	2015-01-02	5,446
1	2015-01-03	8,108
	2015-01-04	9,863
	2015-01-05	11,929
	2015-01-06	14,358
图 企	2015-01-07	16,560
A A	2015-01-08	19,398
Marie 1	2015-01-09	21,525
	2015-01-10	23,989
1825/	2015-01-11	25,861
16/3	2015-01-12	27,780
	2015-01-13	29,830
	2015-01-14	32,357
1	2015-01-15	34,342
Alle	2015-01-16	36,936
	2015-01-17	39,000
	2015-01-18	40,977
	2015-01-19	43,364
	2015-01-20	45,762
	2015-01-21	47,803
	2015-01-22	50,300
Tre .	2015-01-23	52,724
	2015-01-24	55,013
- NOWACH	2015-01-25	56,631
	2015-01-26	58,515
	2015-01-27	61,043
	2015-01-28	63,059
	2015-01-29	65,104
	2015-01-30	67,374
	2015-01-31	69,792
	2015-02-01	72,981
WEST TRANS	2015 02 02	75 210

<u>Question-13</u>- <u>Determine the top 3 most ordered pizza types based on revenue for each pizza category.</u>

```
select *
from
    select
        pt.category,
        pt.name ,
        round(sum(p.price * od.quantity)) as revenue,
        rank() over(partition by category
    order by
        round(sum(p.price * od.quantity)) desc) as rn
    from
        pizzas p
    join order details od
        p.pizza_id = od.pizza_id
    join pizza_types pt
on
        p.pizza_type_id = pt.pizza_type_id
    group by
        pt.category,
        pt.name) as a
where
    rn<4;
```

Park Value					AL.
	ABC category 🔻	ABC name	123 revenue 🔻	12 <mark>3</mark> rn ▼	
	Chicken	The Thai Chicken Pizza	43,434	1	
	Chicken	The Barbecue Chicken Pizza	42,768	2	
	Chicken	The California Chicken Pizza	41,410	3	
	Classic	The Classic Deluxe Pizza	38,180	1	
编集	Classic	The Hawaiian Pizza	32,273	2	
	Classic	The Pepperoni Pizza	30,162	3	
	Supreme	The Spicy Italian Pizza	34,831	1	
Sales Sales	Supreme	The Italian Supreme Pizza	33,477	2	
I land	Supreme	The Sicilian Pizza	30,940	3	
	Veggie	The Four Cheese Pizza	32,266	1	
- 1/1	Veggie	The Mexicana Pizza	26,781	2	
	Veggie	The Five Cheese Pizza	26,066	3	
	METAL CONTRACTOR	WX J •		- KAPISANAN	173

