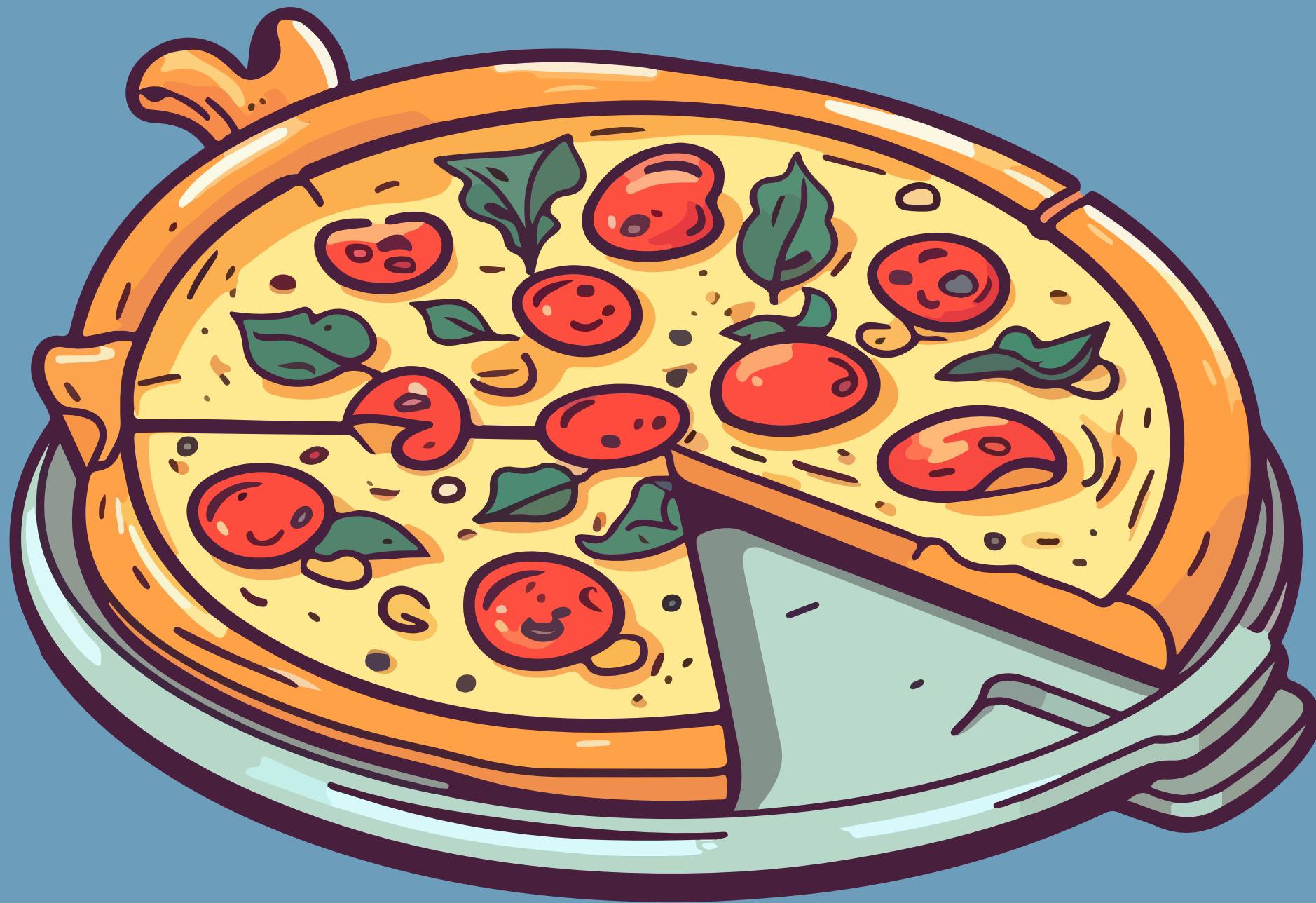


PIZZA SALE



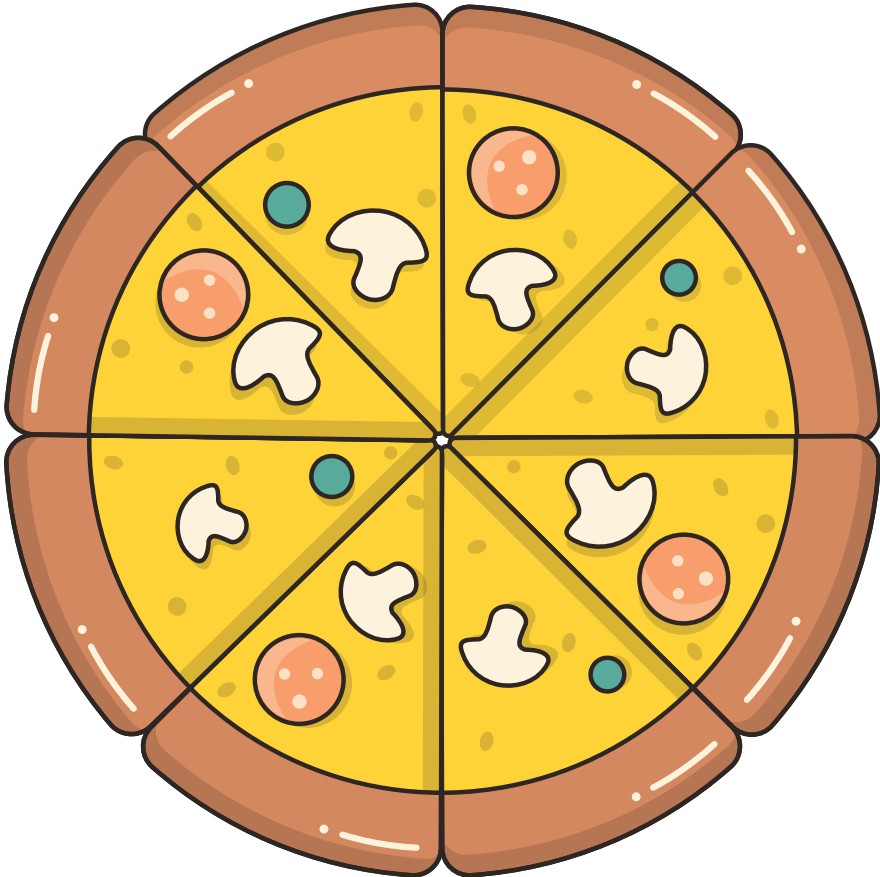
Schema

Pizzas
pizza_id
pizza_type_id
size
price

Pizza_types
pizza_type_id
name
category
ingredients

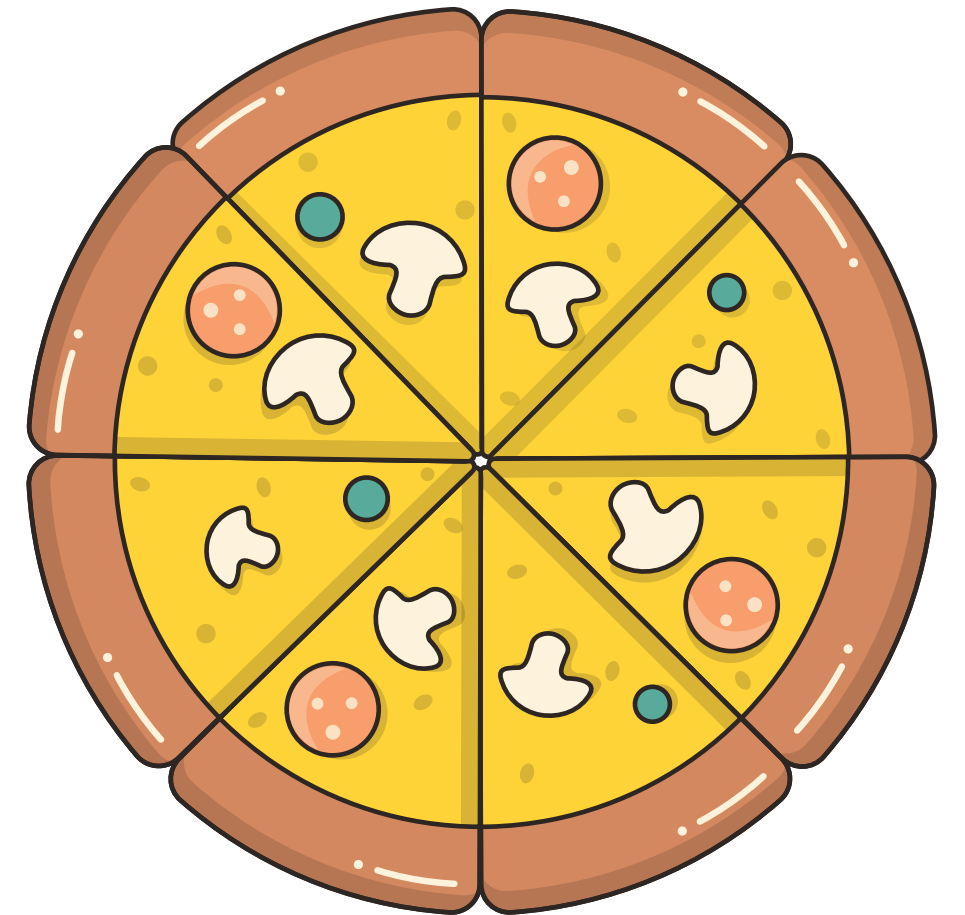
Orders
order_id
orders_date
orders_time

Order_details
order_details_id
order_id
pizza_id
quantity

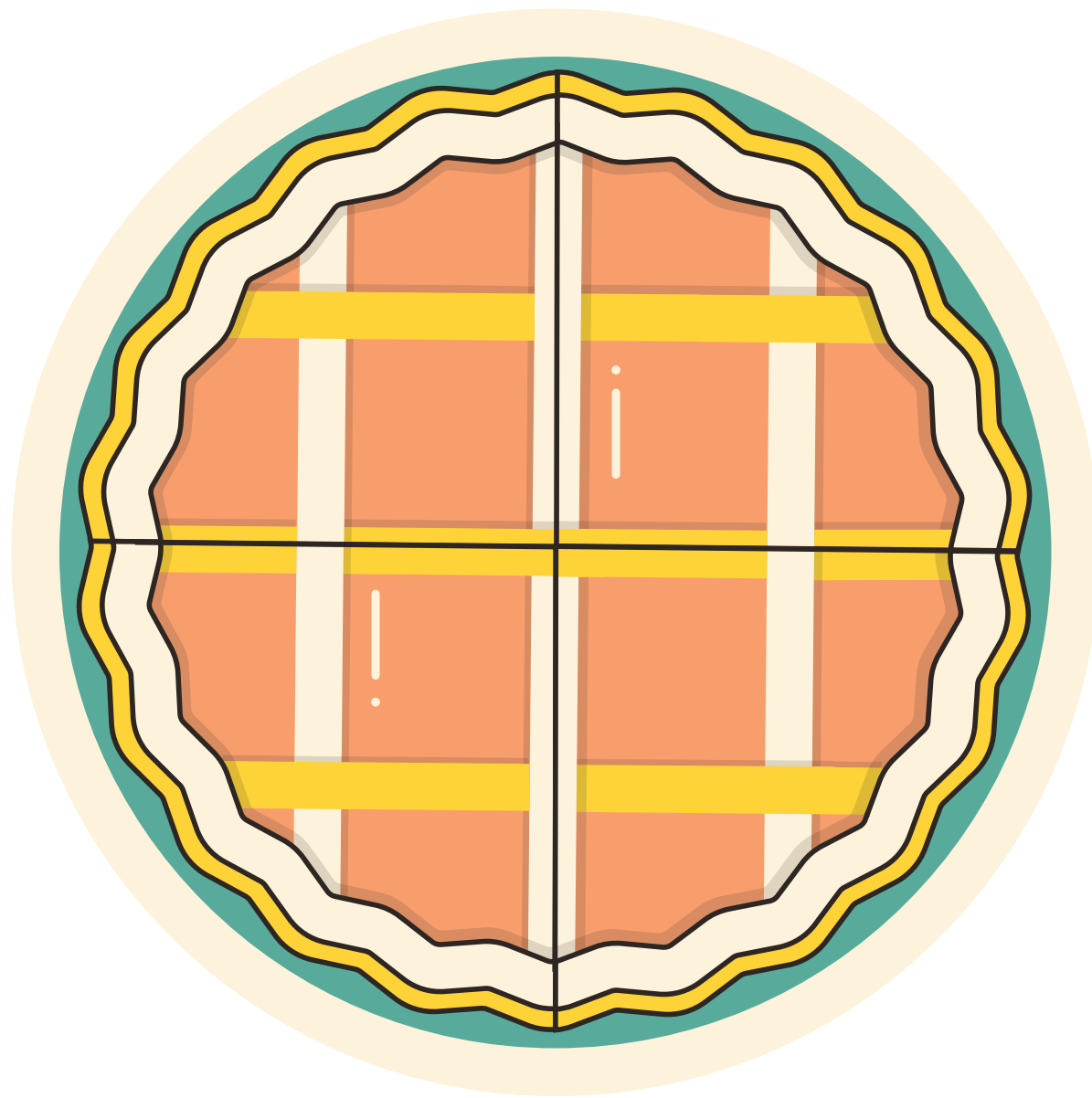


QUESTION

- 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.



RETRIEVE THE TOTAL NUMBER OF ORDERS PLACED.

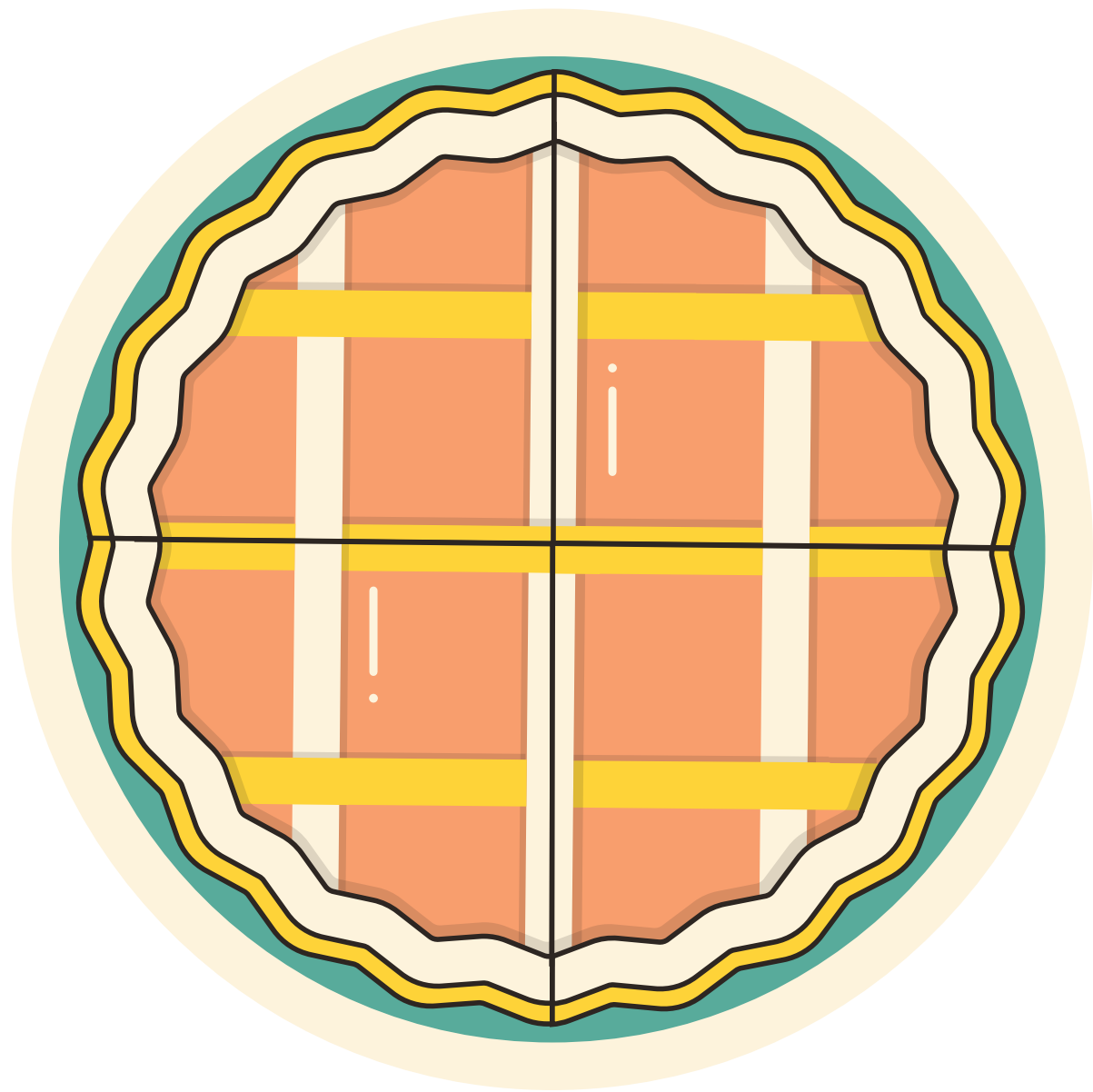


```
68
69 --Retrieve the total number of orders placed.
70 select count(order_id) as total_order_placed
71 from orders
72
73
74
75
76
77
78
79
80
```

Data Output Messages Notifications

	total_order_placed	
	bigint	
1	21350	

CALCULATE THE TOTAL REVENUE GENERATED FROM PIZZA SALES.



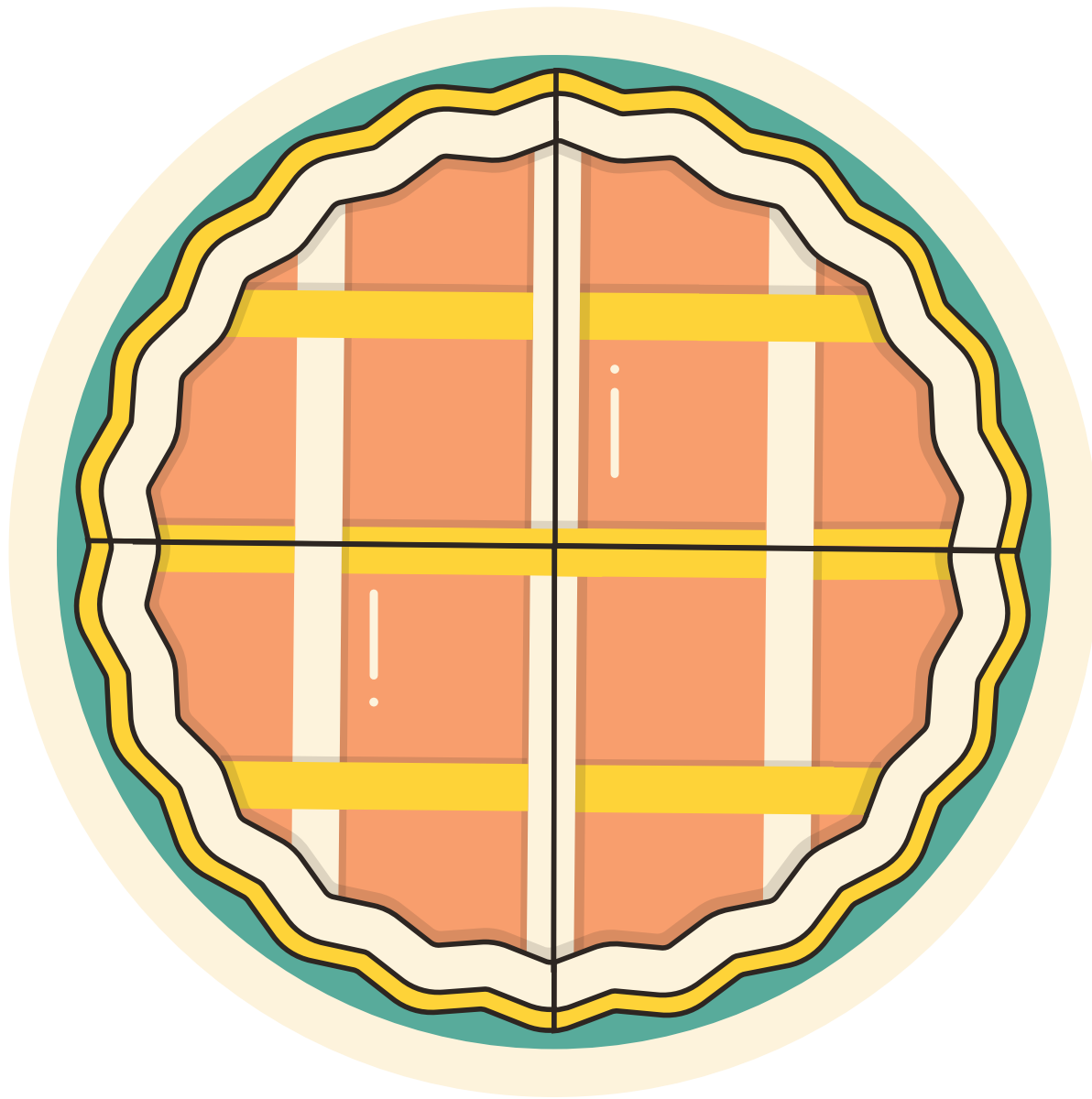
```
73
74  --Calculate the total revenue generated from pizza sales.
75
76  select *from order_details
77  select *from pizzas
78
79  select sum(pizzas.price*order_details.quantity) as total_revenue
80  from pizzas
81  join order_details on pizzas.pizza_id = order_details.pizza_id;
82
83
84
85
86
87
88
```

Data Output Messages Notifications

≡+ 📄 ▼ 📋 ▼ 🗑️ 🗄️ ⬇️ 📈 SQL

	total_revenue double precision 🔒
1	817860.0508384705

IDENTIFY THE HIGHEST-PRICED PIZZA.



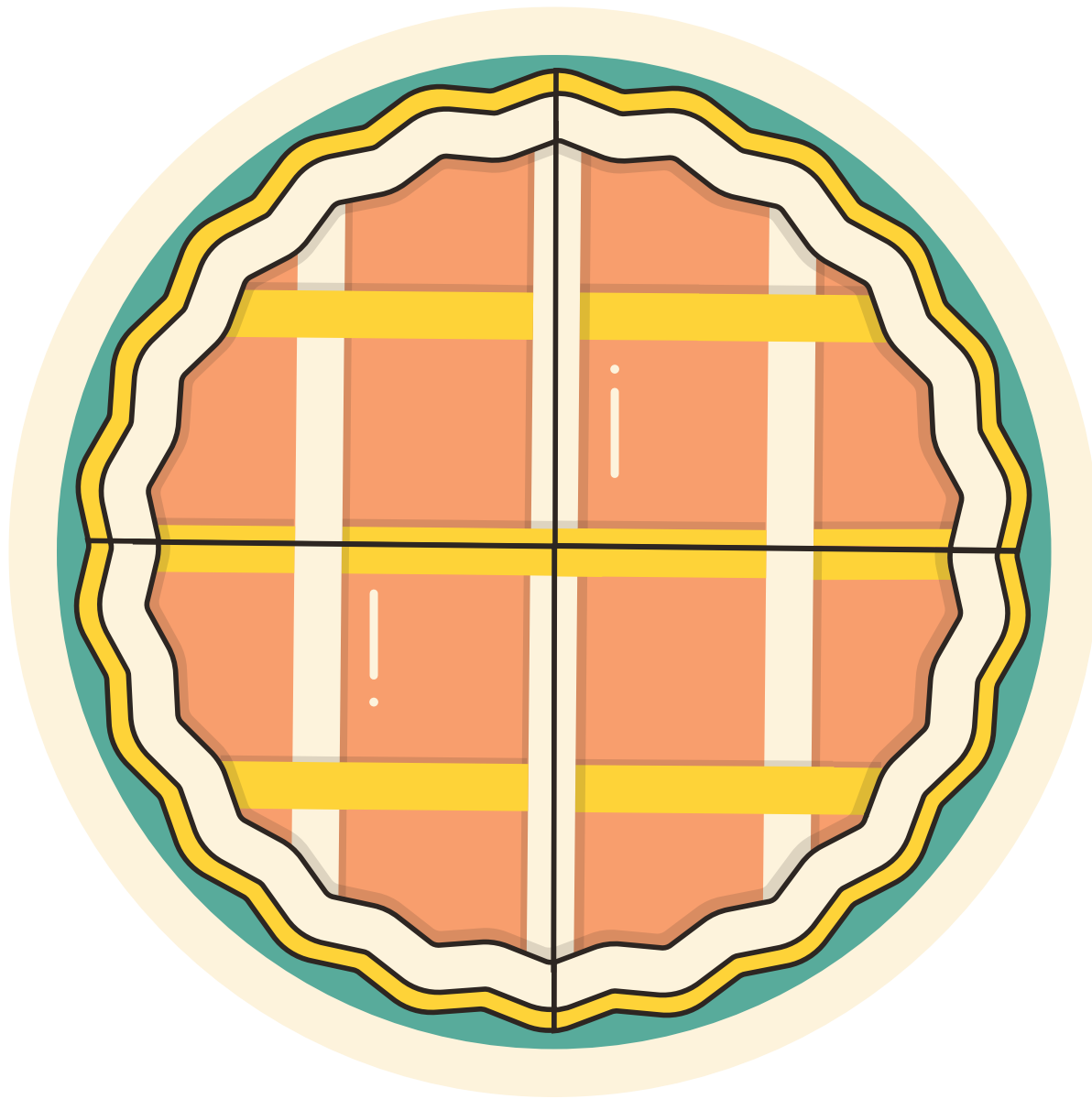
```
82
83  --Identify the highest-priced pizza.
84
85  select *from pizzas
86
87  select pizzas.price as highest_price_pizza, pizza_types.name, pizza_types.category
88  from pizzas
89  join pizza_types on pizzas.pizza_type_id = pizza_types.pizza_type_id
90  group by pizza_types.name, pizza_types.category, highest_price_pizza
91  Order by highest_price_pizza desc
92  limit 1
93
94
95
96
97
98
99
100
101
102
```

Data Output Messages Notifications

SQL

	highest_price_pizza real	name character varying (50)	category character varying (50)
1	35.95	The Greek Pizza	Classic

IDENTIFY THE MOST COMMON PIZZA SIZE ORDERED.

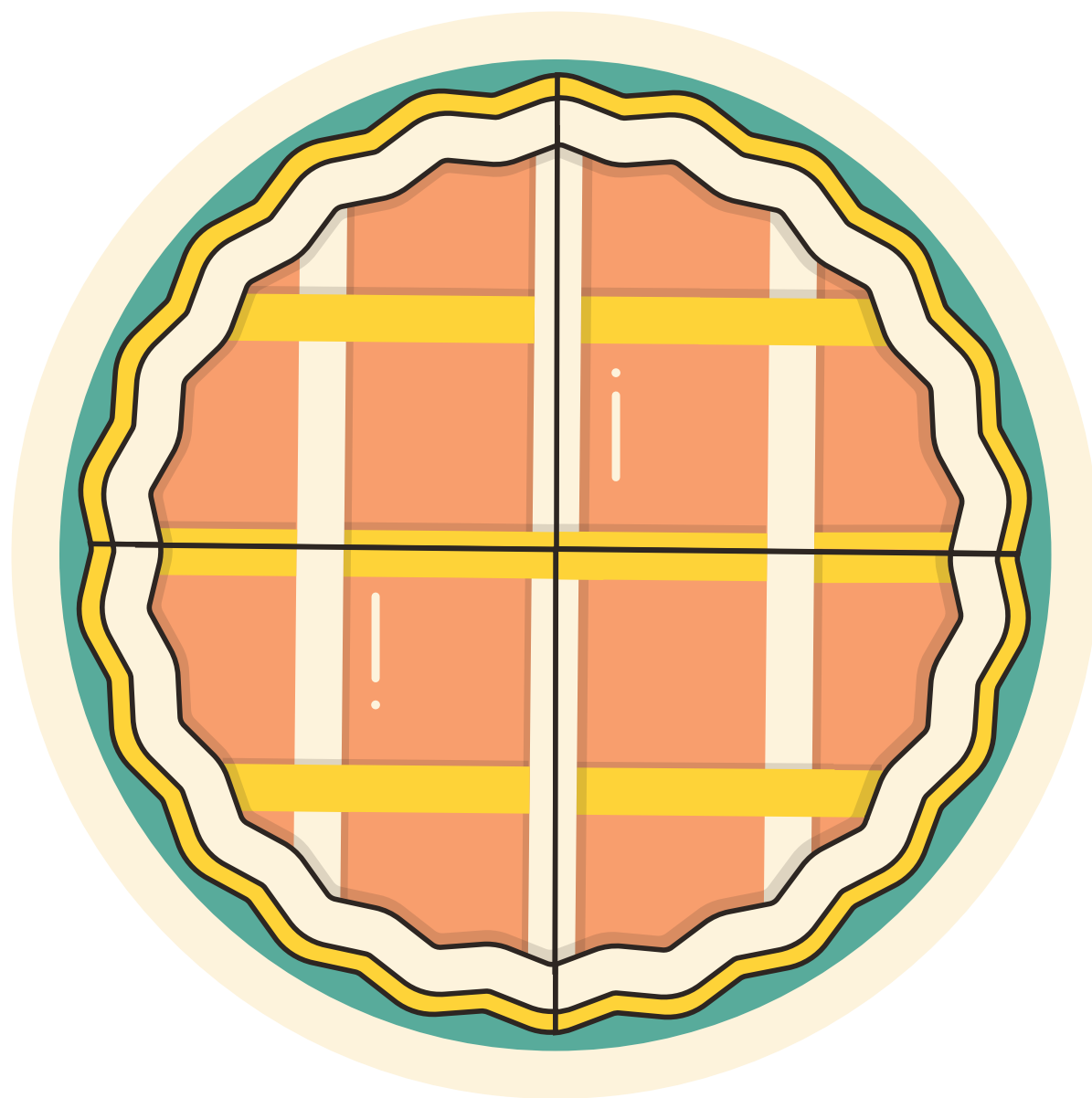


```
94  --Identify the most common pizza size ordered.
95
96  select *from order_details
97
98  select pizzas.size, count(order_details.quantity) as total_count_pizza
99  from order_details
100 join pizzas on order_details.pizza_id = pizzas.pizza_id
101 group by pizzas.size
102 order by total_count_pizza desc
103 LIMIT 1
104
105
106 select *from pizzas
107
108
109
110
111
```

Data Output Messages Notifications

	size character (8) 🔒	total_count_pizza bigint 🔒
1	L	18526

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

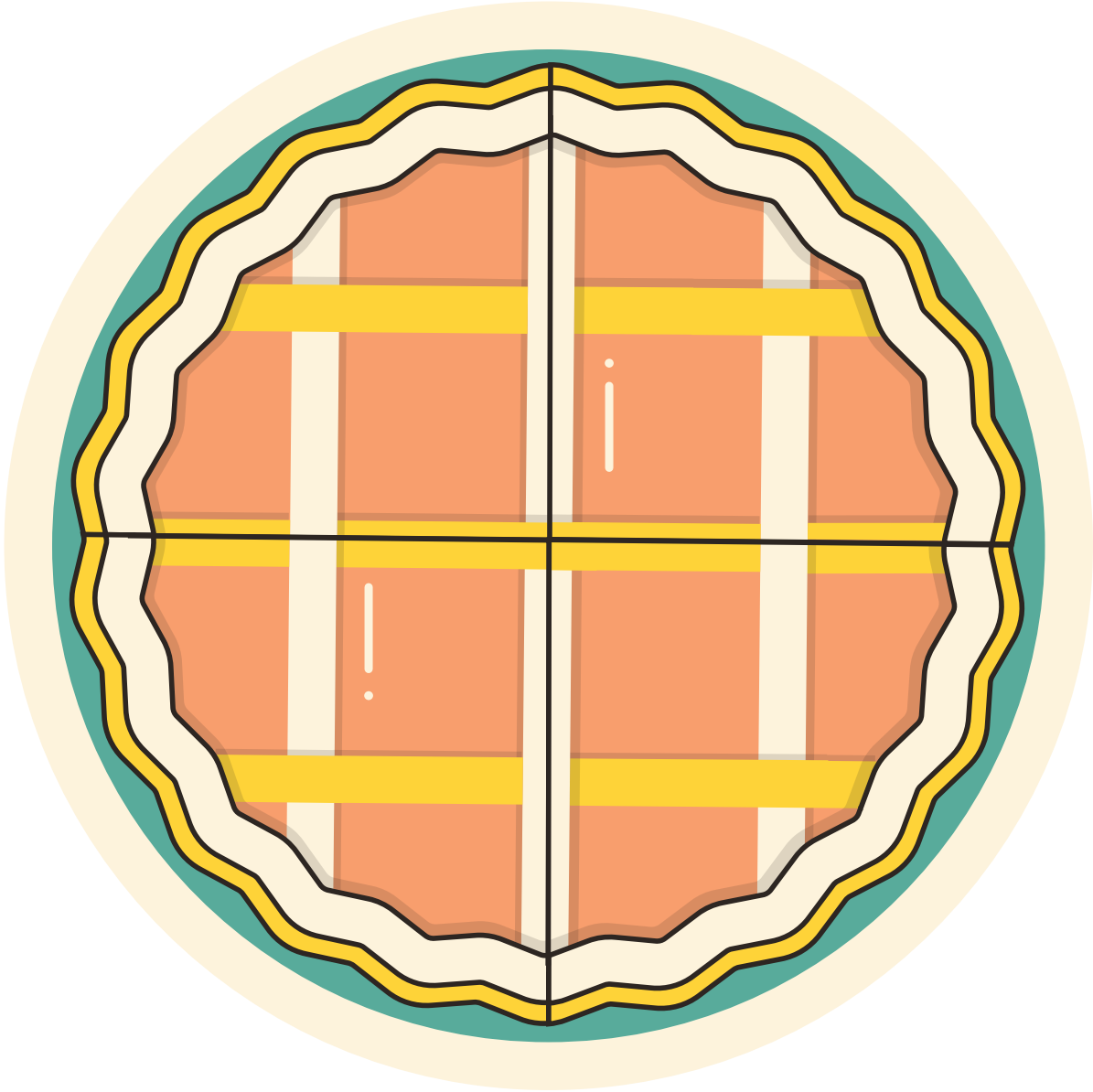


```
105
106  --List the top 5 most ordered pizza types along with their quantities.
107
108  select pizza_types.name, sum(order_details.quantity) as total_count_pizzas
109  from pizzas
110  join pizza_types on pizzas.pizza_type_id = pizza_types.pizza_type_id
111  join order_details on pizzas.pizza_id = order_details.pizza_id
112  group by pizza_types.name
113  order by total_count_pizzas desc
114  limit 5
115
116
117
118
119
120
121
122
```

Data Output Messages Notifications

	name character varying (50)	total_count_pizzas numeric
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

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



```
116
117  --Join the necessary tables to find the total quantity of each pizza category ordered.
118
119  select pizza_types.category, sum(order_details.quantity) as total_count_pizzas
120  from pizzas
121  join pizza_types on pizzas.pizza_type_id = pizza_types.pizza_type_id
122  join order_details on pizzas.pizza_id = order_details.pizza_id
123  group by pizza_types.category
124  order by total_count_pizzas
125
126
127
```

Data OutputMessagesNotifications

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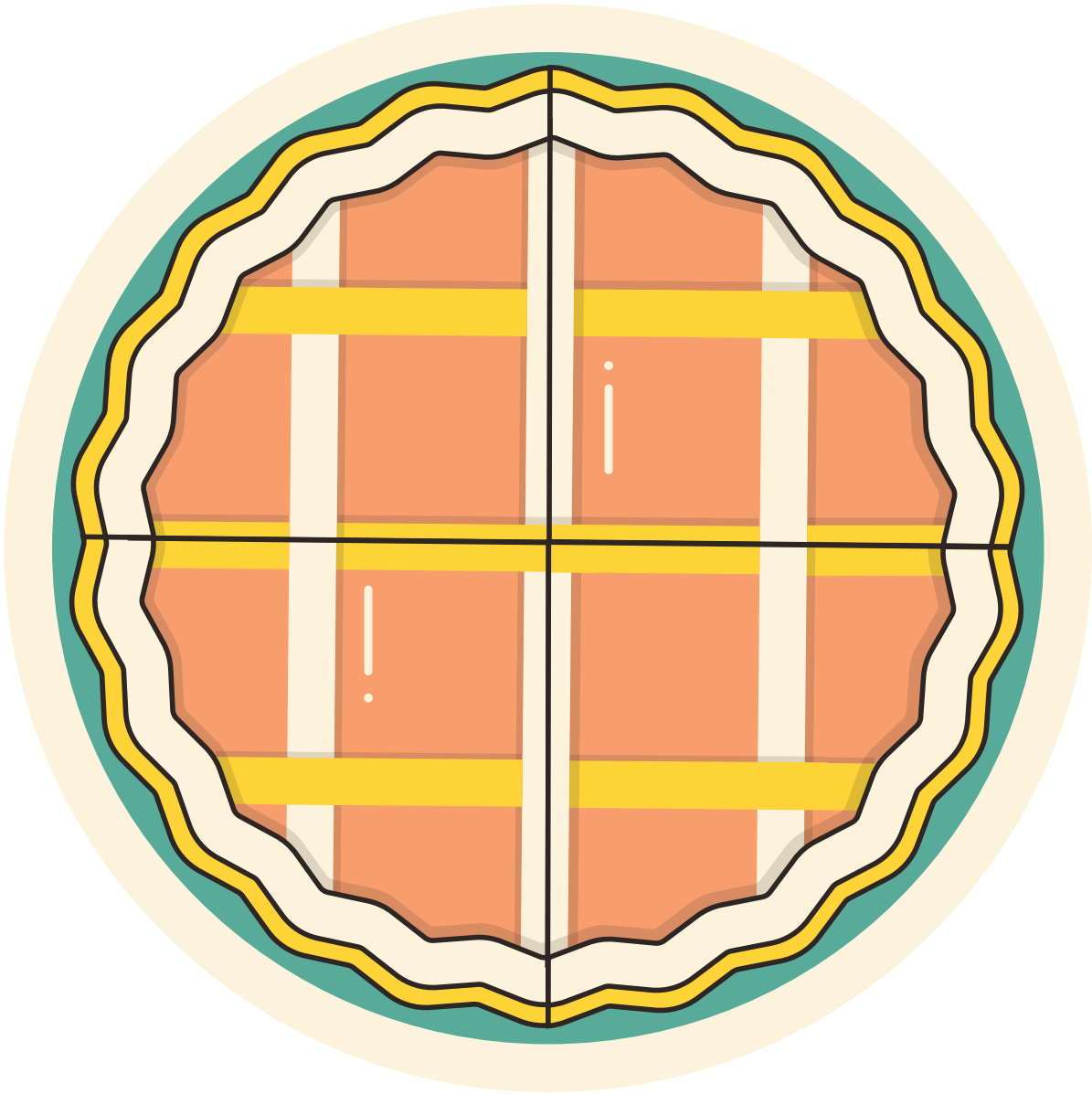
⬇️

📈

SQL

	category character varying (50) 🔒	total_count_pizzas numeric 🔒
1	Chicken	11050
2	Veggie	11649
3	Supreme	11987
4	Classic	14888

DETERMINE THE DISTRIBUTION OF ORDERS BY HOUR OF THE DAY



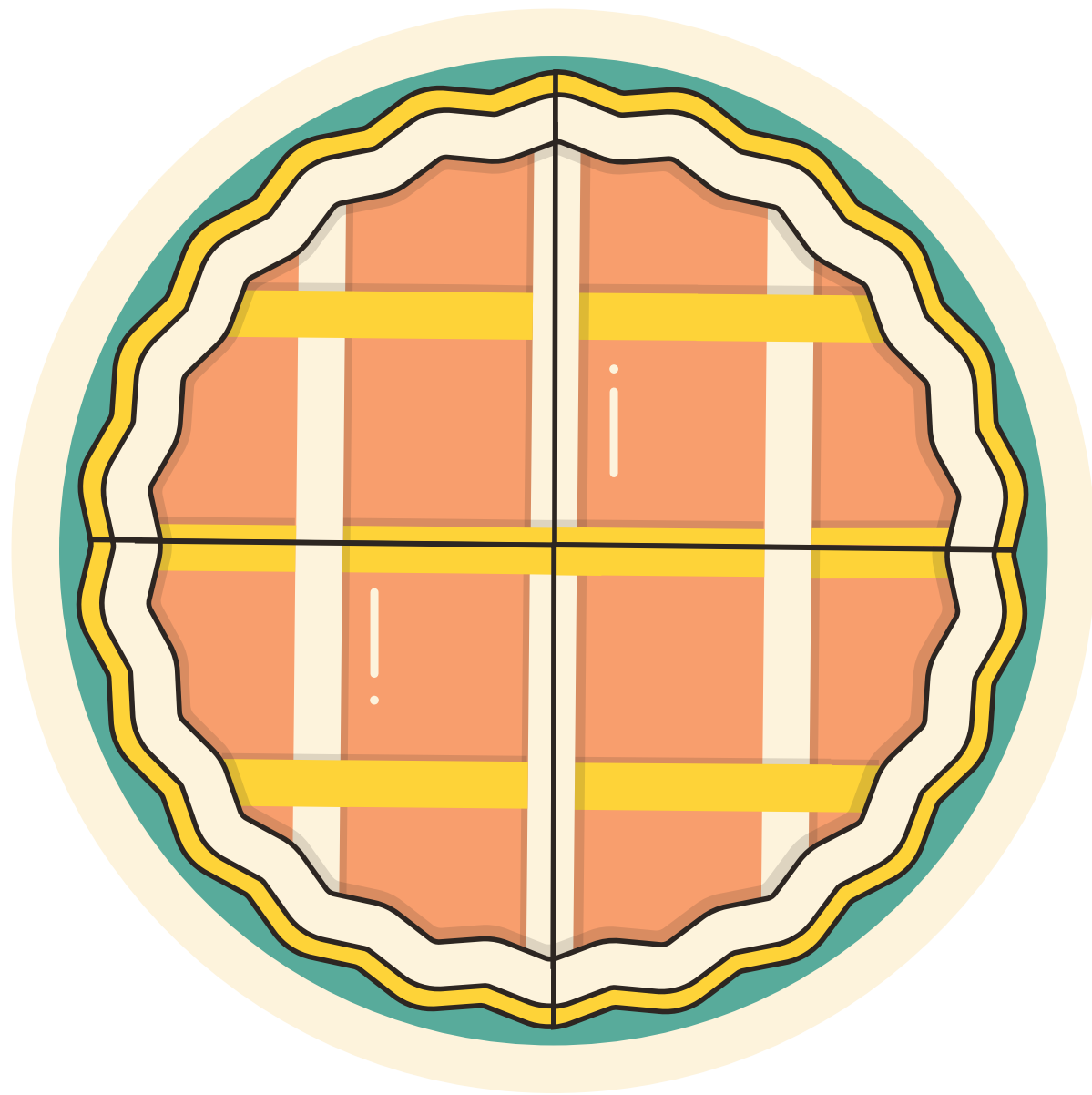
```
151 --Determine the top 3 most ordered pizza types based on revenue.
152
153 select * from pizza_types
154
155 select pizza_types.name, sum(pizzas.price*order_details.quantity) as total_revenue
156 from pizzas
157 join order_details on pizzas.pizza_id = order_details.pizza_id
158 join pizza_types on pizzas.pizza_type_id = pizza_types.pizza_type_id
159 group by pizza_types.name
160 order by total_revenue desc
161 limit 3;
162
163
164
165
166
```

Data Output Messages Notifications

SQL

	name character varying (50)	total_revenue double precision
1	The Thai Chicken Pizza	43434.25
2	The Barbecue Chicken Pizza	42768
3	The California Chicken Pizza	41409.5

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

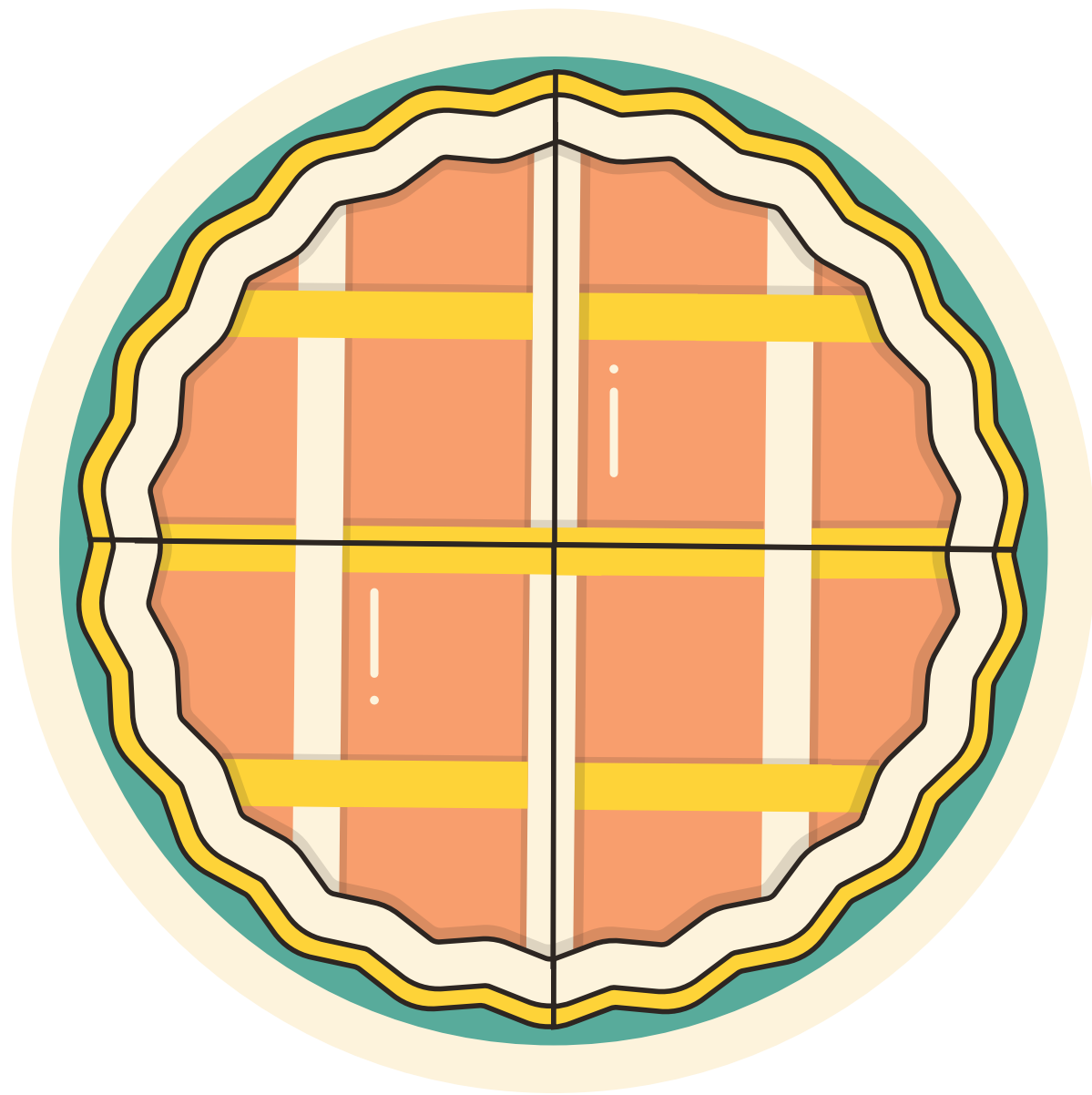


```
140
141 --Group the orders by date and calculate the average number of pizzas ordered per day.
142
143 select round(avg(pizzas_per_day),0) from(
144 select orders.orders_date, sum(order_details.quantity) as pizzas_per_day
145 from orders
146 join order_details on orders.order_id = order_details.order_id
147 group by orders_date
148 order by orders_date
149 );
150
151
```

Data Output Messages Notifications

	round numeric
1	138

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

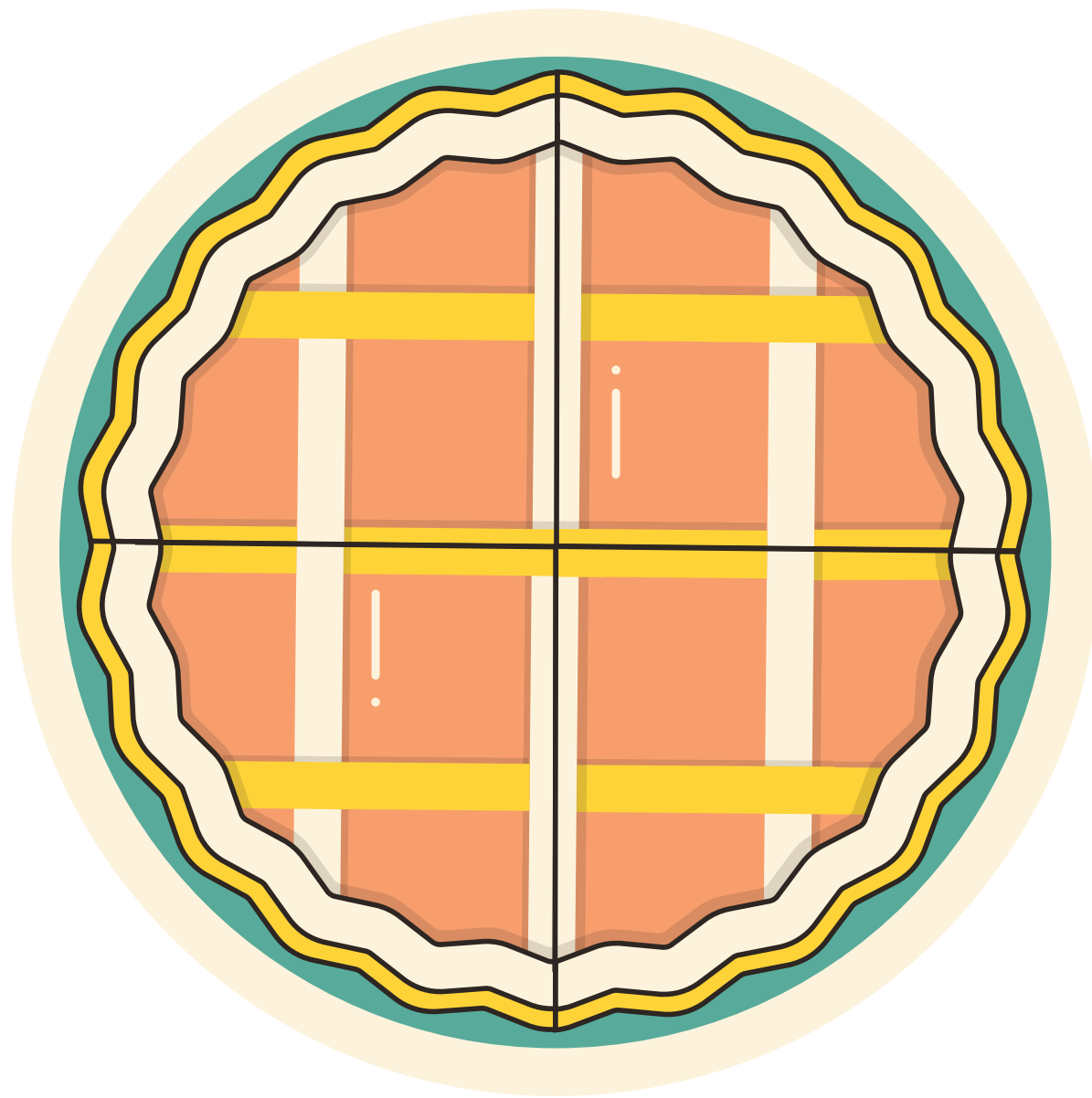


```
140
141 --Group the orders by date and calculate the average number of pizzas ordered per day.
142
143 select round(avg(pizzas_per_day),0) from(
144 select orders.orders_date, sum(order_details.quantity) as pizzas_per_day
145 from orders
146 join order_details on orders.order_id = order_details.order_id
147 group by orders_date
148 order by orders_date
149 );
150
151
```

Data Output Messages Notifications

	round numeric
1	138

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



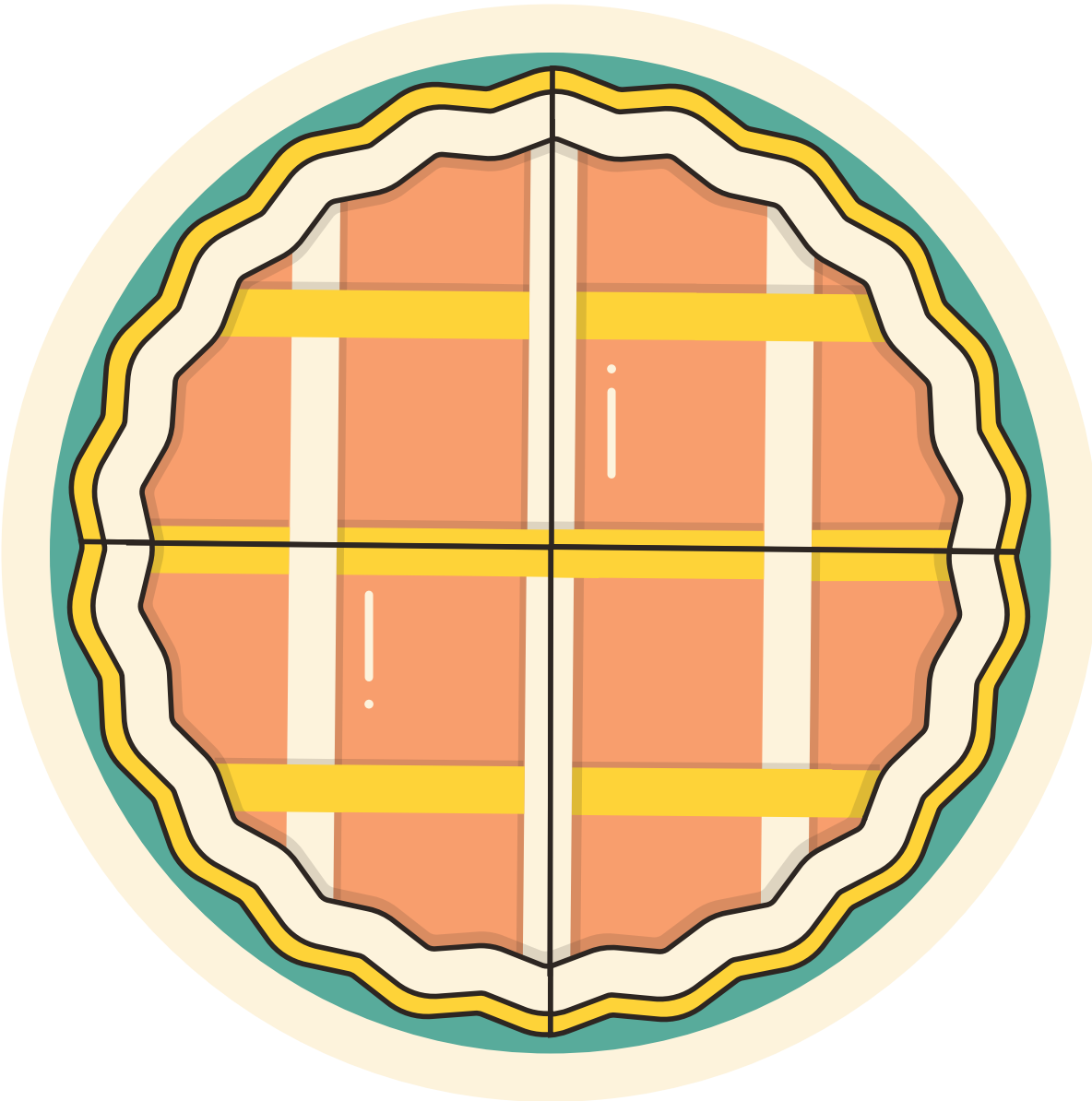
```
143
144  --Group the orders by date and calculate the average number of pizzas ordered per day.
145
146  select round(avg(pizzas_per_day),0) from(
147  select orders.orders_date, sum(order_details.quantity) as pizzas_per_day
148  from orders
149  join order_details on orders.order_id = order_details.order_id
150  group by orders_date
151  order by orders_date
152  );
153
```

Data Output Messages Notifications

SQL

	round numeric
1	138

DETERMINE THE TOP 3 MOST ORDERED PIZZA TYPES BASED ON REVENUE

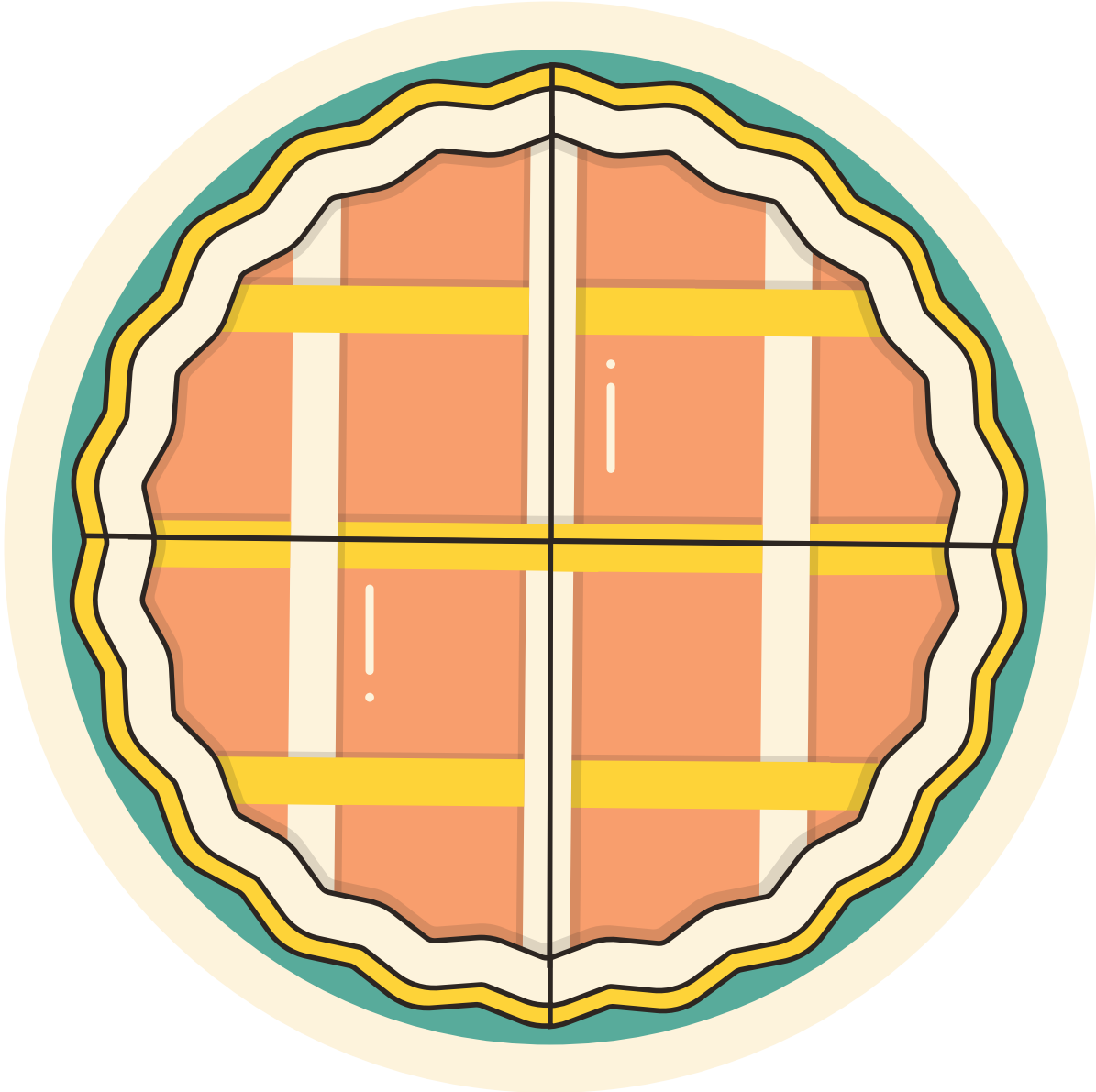


```
156
157 --Determine the top 3 most ordered pizza types based on revenue.
158
159 v select * from pizza_types
160
161 select pizza_types.name, sum(pizzas.price*order_details.quantity) as total_revenue
162 from pizzas
163 join order_details on pizzas.pizza_id = order_details.pizza_id
164 join pizza_types on pizzas.pizza_type_id = pizza_types.pizza_type_id
165 group by pizza_types.name
166 order by total_revenue desc
167 limit 3;
168
```

Data Output Messages Notifications

	name character varying (50)	total_revenue double precision
1	The Thai Chicken Pizza	43434.25
2	The Barbecue Chicken Pizza	42768
3	The California Chicken Pizza	41409.5

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

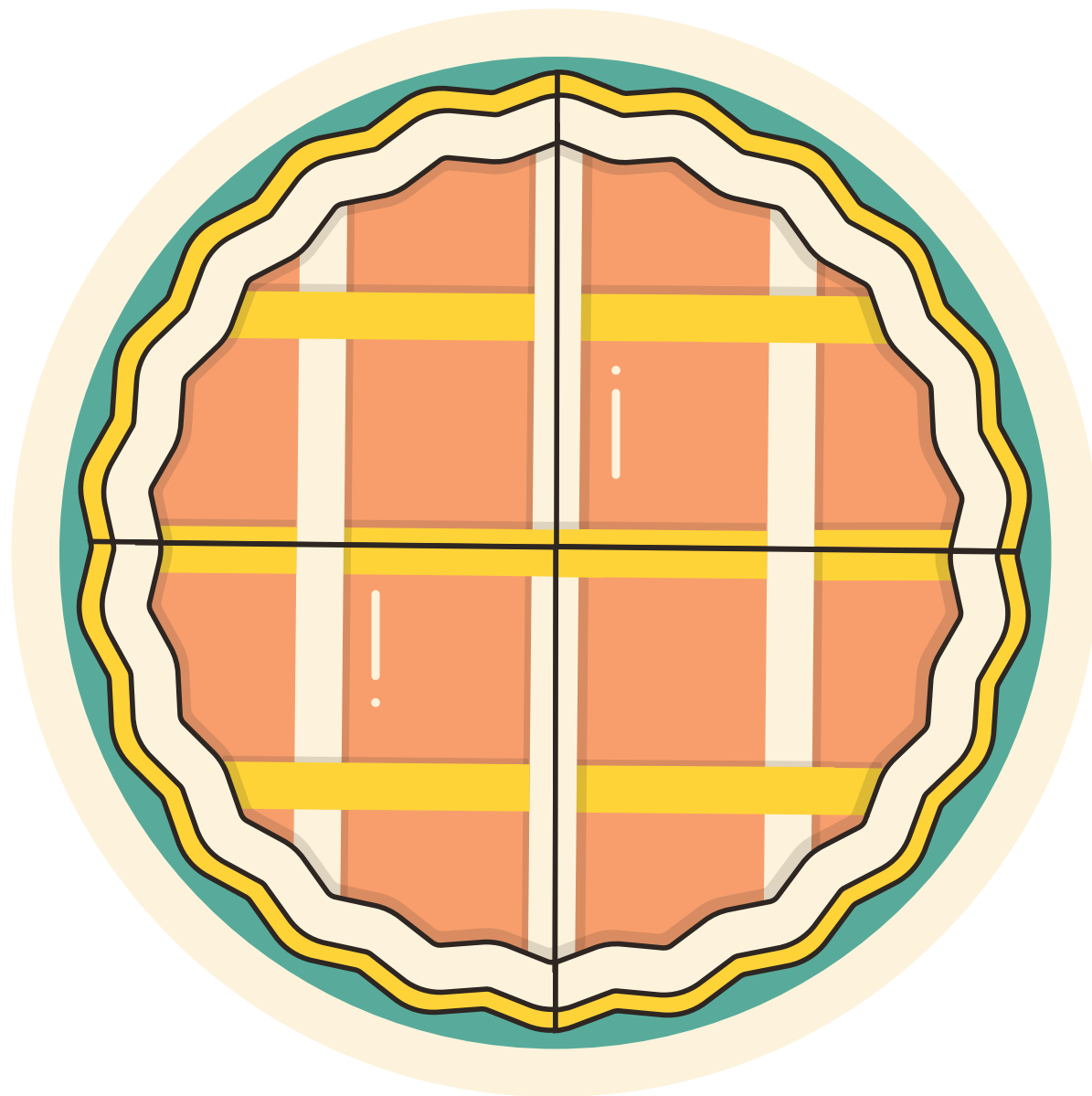


```
174 --Determine the percentage revenue category wise
175 --Calculate the percentage contribution of each pizza type to total revenue.
176
177 WITH total_revenues as (
178     select sum(pizzas.price*order_details.quantity) as total_revenue
179     from pizzas
180     join order_details on pizzas.pizza_id = order_details.pizza_id
181 )
182
183 select pizza_types.category, (sum(pizzas.price*order_details.quantity)
184     /(select total_revenue from total_revenues) *100) as category_wise_revenue
185 from pizzas
186 join pizza_types on pizzas.pizza_type_id = pizza_types.pizza_type_id
187 join order_details on pizzas.pizza_id = order_details.pizza_id
188 group by pizza_types.category
189 order by category_wise_revenue desc
190
```

Data Output Messages Notifications

	category character varying (50)	category_wise_revenue double precision
1	Classic	26.905960230697634
2	Supreme	25.456311211146232
3	Chicken	23.95513753228847
4	Veggie	23.682591025867662

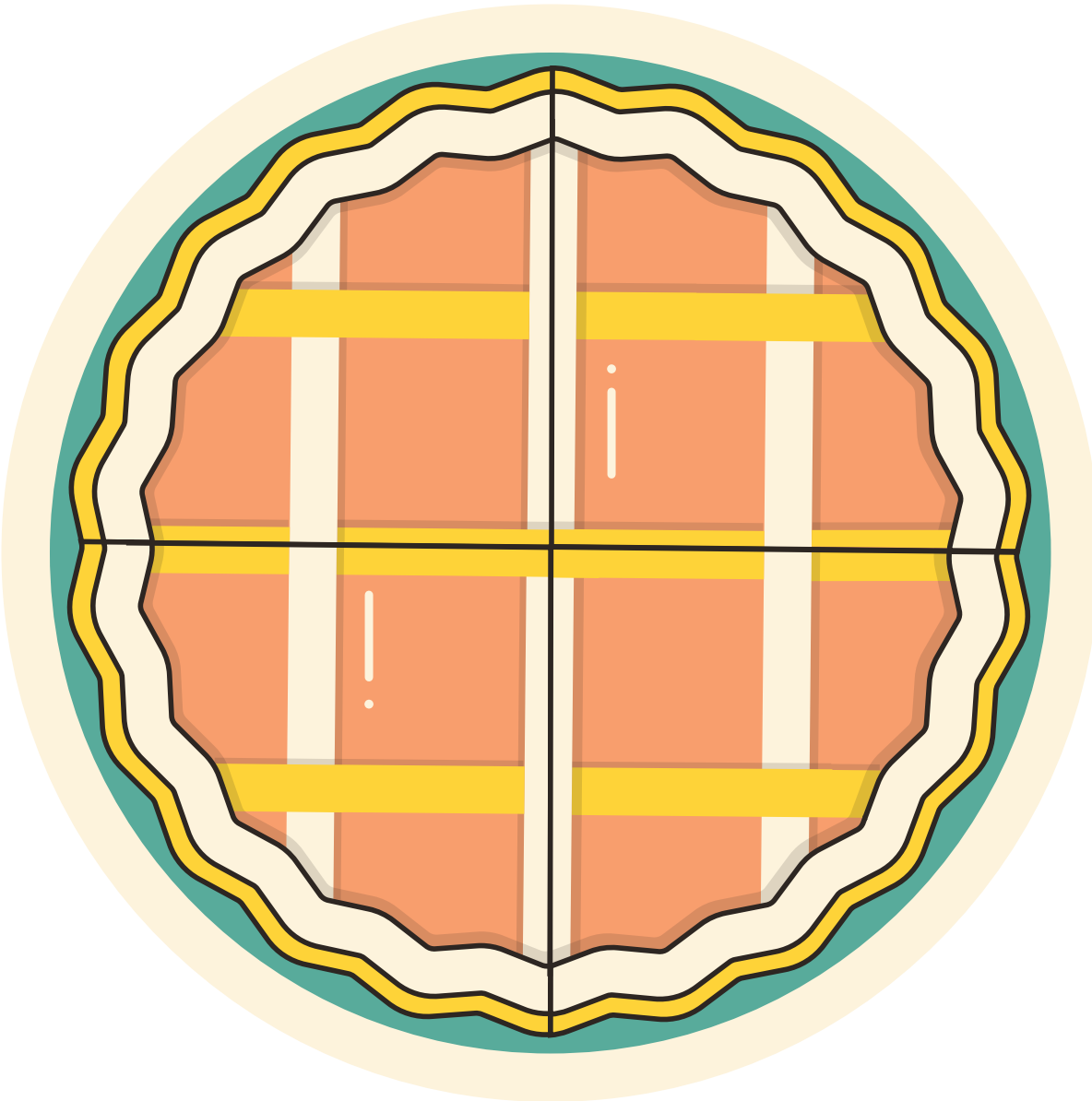
ANALYZE THE CUMULATIVE REVENUE GENERATED OVER TIME.



```
194  --Analyze the cumulative revenue generated over time.
195
196  With total_revenue as(
197      select orders.orders_date as Sales_date, sum(order_details.quantity*pizzas.price) as revenue
198      from pizzas
199      join order_details on pizzas.pizza_id = order_details.pizza_id
200      join orders on order_details.order_id = orders.order_id
201      group by Sales_date
202      order by Sales_date
203  )
204
205  select sales_date, sum(revenue) over(order by sales_date)
206  from total_revenue
207
```

	sales_date date	sum double precision
1	2015-01-01	2713.8500022888184
2	2015-01-02	5445.750003814697
3	2015-01-03	8108.150007247925
4	2015-01-04	9863.600008010864
5	2015-01-05	11929.550008773804
6	2015-01-06	14358.500011444092
7	2015-01-07	16560.70001220703
8	2015-01-08	19399.050018310547

ANALYZE THE CUMULATIVE REVENUE GENERATED OVER TIME.



```
211 --Analyze the cumulative revenue generated over time.(2nd Menthod)
212
213 select orders_date,
214 sum(revenue) over(order by orders_date) as cum_revenue
215 from
216 (select orders.orders_date,
217 sum (order_details.quantity*pizzas.price)as revenue
218 from order_details join pizzas
219 on order_details.pizza_id= pizzas.pizza_id
220 join orders
221 on orders.order_id = order_details.order_id
222 group by orders.orders_date) as sales;
```

	sales_date date	sum double precision
1	2015-01-01	2713.8500022888184
2	2015-01-02	5445.750003814697
3	2015-01-03	8108.150007247925
4	2015-01-04	9863.600008010864
5	2015-01-05	11929.550008773804
6	2015-01-06	14358.500011444092
7	2015-01-07	16560.70001220703
8	2015-01-08	19399.050018310547
9	2015-01-09	21526.400022506714