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EXPLORING DATASET OF PIZZA HOUSE BY SQL





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ABOUT

Hello....!

This project exploring the pizza sales performance, metrics of the market to uncover insights and outlines strategies for growth





ORDERS

order_id	date	time
24	2015-01-01	14:23:01
25	2015-01-01	14:44:44
26	2015-01-01	14:54:26
27	2015-01-01	15:11:17
28	2015-01-01	15:35:46
29	2015-01-01	15:41:01
30	2015-01-01	15:41:25
31	2015-01-01	15:50:18
32	2015-01-01	15:53:18
33	2015-01-01	15:54:08

ORDER DETAILS

order_details_id	order_id	pizza_id	quantity
146	105	hawaiian_s	2
147	105	pepperoni_l	1
148	105	prsc_argla_m	1
149	106	mexicana_l	1
150	106	spicy_ital_l	1
151	107	cali_ckn_l	1
152	107	ital_supr_m	1
153	107	spicy_ital_l	1
154	107	veggie_veg_l	1
155	108	classic_dlx_l	1
156	108	hawaiian_l	1

PIZZAS

pizza_id	pizza_type_id	size	price
bbq_ckn_s	bbq_ckn	S	12.75
bbq_ckn_m	bbq_ckn	M	16.75
bbq_ckn_l	bbq_ckn	L	20.75
cali_ckn_s	cali_ckn	S	12.75
cali_ckn_m	cali_ckn	M	16.75
cali_ckn_l	cali_ckn	L	20.75
ckn_alfredo_s	ckn_alfredo	S	12.75
ckn_alfredo_m	ckn_alfredo	M	16.75
ckn_alfredo_l	ckn_alfredo	L	20.75
ckn_pesto_s	ckn_pesto	S	12.75
ckn_pesto_m	ckn_pesto	M	16.75

PIZZA TYPES

pizza_type_id	name	category	ingredients
bbq_ckn	The Barbecue Chicken Pizza	Chicken	Barbecued Chicken, Red Peppers, Green Peppers, Mozzarella Cheese
cali_ckn	The California Chicken Pizza	Chicken	Chicken, Artichoke, Spinach, Garlic, Jalapeno Peppers, Mozzarella Cheese
ckn_alfredo	The Chicken Alfredo Pizza	Chicken	Chicken, Red Onions, Red Peppers, Mushrooms, Alfredo Sauce, Mozzarella Cheese
ckn_pesto	The Chicken Pesto Pizza	Chicken	Chicken, Tomatoes, Red Peppers, Spinach, Garlic, Pesto Sauce, Mozzarella Cheese
southw_ckn	The Southwest Chicken Pizza	Chicken	Chicken, Tomatoes, Red Peppers, Red Onions, Corn, Mozzarella Cheese
thai_ckn	The Thai Chicken Pizza	Chicken	Chicken, Pineapple, Tomatoes, Red Peppers, Thai Sauce, Mozzarella Cheese
big_meat	The Big Meat Pizza	Classic	Bacon, Pepperoni, Italian Sausage, Chorizo Sausage, Mozzarella Cheese
classic_dlx	The Classic Deluxe Pizza	Classic	Pepperoni, Mushrooms, Red Onions, Red Peppers, Mozzarella Cheese
hawaiian	The Hawaiian Pizza	Classic	Sliced Ham, Pineapple, Mozzarella Cheese
ital_cpdllo	The Italian Capocollo Pizza	Classic	Capocollo, Red Peppers, Tomatoes, Goat Cheese, Mozzarella Cheese
napolitana	The Napolitana Pizza	Classic	Tomatoes, Anchovies, Green Olives, Red Onion, Mozzarella Cheese
pen_msh_pen	The Pepperoni, Mushroom, Pepperoni Pizza	Classic	Pepperoni, Mushrooms, Green Peppers, Mozzarella Cheese



CORELATION OF TABLES WITH EACH OTHER

Table: **orders**

Columns:

order_id	int
date	text
time	text

Table: **pizza_types**

Columns:

pizza_type_id	text
name	text
category	text
ingredients	text

Table: **order_details**

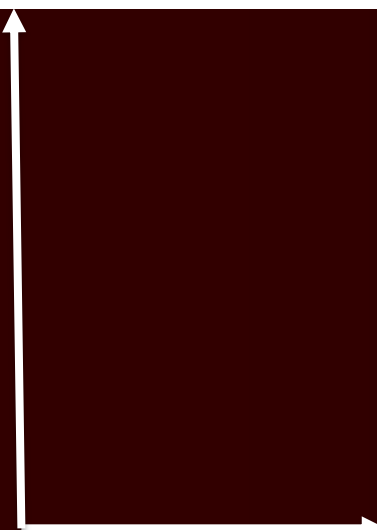
Columns:

order_details_id	int
order_id	int
pizza_id	text
quantity	int

Table: **pizzas**

Columns:

pizza_id	text
pizza_type_id	text
size	text
price	double





THE TOTAL NO. OF ORDERS PLACED

```
SQL File 4  create-databases  SQL File 4  X
[Icons] Limit to 1000 rows
23
24 # .....retrieving the total number of orders placed....
25
26
27 • select count(order_id)
28    as total_num_of_orders
29    from orders;
30
```

Result Grid [Icons] Filter	
	total_num_of_orders
▶	21350

THE REVENUE GENERATED FROM THE PIZZA SALES



```
# .... revenue generated from the pizza sales ....  
  
SELECT ROUND(SUM((od.quantity*p.price)), 3) AS total_sales  
FROM order_details AS od  
JOIN pizzas AS p  
ON p.pizza_id = od.pizza_id ;
```




Result Grid	
	total_sales
▶	817860.05

THE HIGHEST PRICED PIZZAS



```
39
40 • select pizza_id, max(price) as highest_priced_pizza from pizzas
41    group by pizza_id
42    order by highest_priced_pizza desc
43    limit 1;
44
```



Result Grid		Filter Rows:
	pizza_id	highest_priced_pizza
▶	the_greek_xxl	35.95



MOST COMMONLY ORDERED PIZZA SIZE

```
47      #----the most common pizza size ordered----
48  •   select p.size, count(od.quantity)
49      as common_order_size
50      from order_details as od
51      join pizzas as p
52      on od.pizza_id= p.pizza_id
53      group by 1
54      order by p.size
55
```

Result Grid			Filter Rows:
	size	common_order_size	
▶	L	18526	
	M	15385	
	S	14137	
	XL	544	
	XXL	28	



TOP 10 MOST ORDERED PIZZAS & THEIR QUANTITIES

```
68 #---determining the hour of the day for most orders distributed---
69
70 • alter table orders
71   change time order_time varchar(200);
72 • select count(order_id) as total_orders,
73   hour(order_time) as ordered_time
74   from orders
75   group by ordered_time
76   order by total_orders desc
77
```

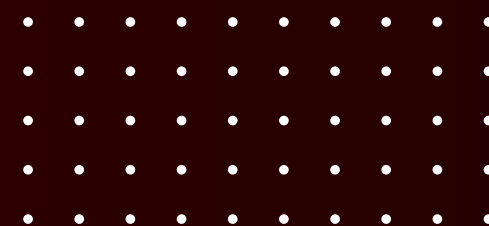
Result Grid			Filter Rows:
	total_orders	ordered_time	
▶	2520	12	
	2455	13	
	2399	18	
	2336	17	
	2009	19	
	1920	16	
	1642	20	

THE HOURS OF THE DAY FOR MOST ORDERS DISRIBUTED

```
58 #---determining the hour of the day for most orders distributed---
59
70 • alter table orders
71   change time order_time varchar(200);
72 • select count(order_id) as total_orders,
73   hour(order_time) as ordered_time
74   from orders
75   group by ordered_time
76   order by total_orders desc
77
```



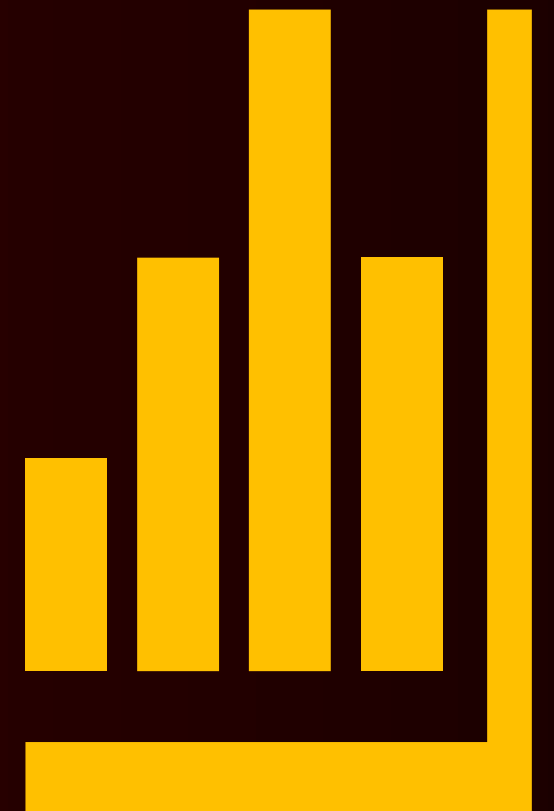
Result Grid			Filter Rows:
	total_orders	ordered_time	
▶	2520	12	
	2455	13	
	2399	18	
	2336	17	
	2009	19	
	1920	16	
	1642	20	





TOTAL ORDERS OF EACH PIZZA ITEM

```
78 #---- total orders of each pizza item ----
79
80 • SELECT SUM(od.quantity) AS total_quantity , pt.name AS name
81 FROM order_details AS od
82 JOIN pizzas AS p
83 ON od.pizza_id = p.pizza_id
84 JOIN pizza_types AS pt
85 ON pt.pizza_type_id = p.pizza_type_id
86 GROUP BY name
87 ORDER BY total_quantity DESC;
88
```



Result Grid			Filter Rows:
	total_quantity	name	
▶	2453	The Classic Deluxe Pizza	
	2432	The Barbecue Chicken Pizza	
	2422	The Hawaiian Pizza	
	2418	The Pepperoni Pizza	
	2371	The Thai Chicken Pizza	
	2370	The California Chicken Pizza	
	1938	The Sicilian Pizza	

TOP 5 MOST ORDERED PIZZA TYPES BASED ON THE REVENUE



```
88
89
90  #---- finding top 5 most ordered pizza types based on the revenue
91
92  •  select pt.name,sum(od.quantity*p.price) as revenue
93     from  pizza_types as pt
94     join  pizzas as p
95     on pt.pizza_type_id= p.pizza_type_id
96     join  order_details as od
97     on p.pizza_id = od.pizza_id
98     group by 1
```



	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 Spicy Italian Pizza	34831.25



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THANK YOU

FOR ATTENTION

LinkedIn : www.linkedin.com/in/akash-moddugalla

GitHub : <https://github.com/AkashModdugalla86>