



ABDUL'S PIZZA HOUSE

SQL PROJECT

Project Overview

Abdul's pizza house is a comprehensive database designed for managing pizza orders, menu items and sales. The database structure facilitates efficient handling of customer orders, menu management and sales tracking. It also includes solutions to various SQL queries to demonstrate data retrieval and manipulation.



OBJECTIVES

- **Order Management:** Quick and accurate order processing for various pizza types and sizes.
- **Menu Management:** Easy updates and maintenance of the pizza menu.
- **Sales Tracking:** Record and analyze sales data for revenue reports



DATABASE DESIGN

The database includes the following tables:

1. **pizza_types**: Details about each type of pizza.

- Columns: **pizza_type_id**, **name**, **category**, **ingredients**

2. **pizzas**: Information about specific pizzas, including size and price.

- Columns: **pizza_id**, **pizza_type_id**, **size**, **price**

3. **orders**: Information about orders of pizzas

- Columns: **order_id**, **order_date**, **order_time**



```
1      -- Retrieve the total number of orders placed.  
2  
3  ●    SELECT  
4          COUNT(order_id) AS total_orders  
5  FROM  
6      orders;
```

Result Grid



Filter Rows:

Export:



Wrap Cell Content:

	total_orders
▶	21350

```
1      -- Identify the highest-priced pizza.
2
3  ●    SELECT
4          pt.name, p.price
5  FROM
6          pizza_types pt
7          JOIN
8          pizzas p ON pt.pizza_type_id = p.pizza_type_id
9  ORDER BY p.price DESC
10     LIMIT 1;
```

Result Grid



Filter Rows:

Export:



Wrap Cell Content:



	name	price
▶	The Greek Pizza	35.95



```
1  -- Determine the distribution of orders by hour of the day
2
3  •  SELECT
4      HOUR(order_time) AS hour, COUNT(order_id) AS order_count
5  FROM
6      orders
7  GROUP BY HOUR(order_time);
8
```

Result Grid



Filter Rows:

Export:







Wrap Cell Content:



	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

Result 3 ✕


```
1      -- Join relevant tables to find the category-wise distribution of pizzas.
2
3
4 •    select category ,count(name)
5      from pizza_types
6      group by category;
```

Result Grid |   Filter Rows: | Export:  | Wrap Cell Content: 

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




```

1      -- List all vegetarian pizzas.
2
3
4  ●   SELECT p.pizza_id, pt.name AS pizza_type, p.size, p.price
5      FROM pizzas p
6      JOIN pizza_types pt ON p.pizza_type_id = pt.pizza_type_id
7      WHERE pt.category = 'Veggie';
8

```

Result Grid



Filter Rows:

Export:



Wrap Cell Content:



	pizza_id	pizza_type	size	price
▶	five_cheese_s	The Five Cheese Pizza	S	12.5
	five_cheese_m	The Five Cheese Pizza	M	15.5
	five_cheese_l	The Five Cheese Pizza	L	18.5
	four_cheese_s	The Four Cheese Pizza	S	11.75
	four_cheese_m	The Four Cheese Pizza	M	14.75
	four_cheese_l	The Four Cheese Pizza	L	17.95
	green_garden_s	The Green Garden Pizza	S	12
	green_garden_m	The Green Garden Pizza	M	16
	green_garden_l	The Green Garden Pizza	L	20.25
	ital_veggie_s	The Italian Vegetables Pizza	S	12.75
	ital_veggie_m	The Italian Vegetables Pizza	M	16.75
	ital_veggie_l	The Italian Vegetables Pizza	L	21
	mediterranean_s	The Mediterranean Pizza	S	12

Result 2 ✕

```

1      -- Find the average price of pizzas for each type.
2
3
4
5 •    SELECT pt.name AS pizza_type, round(AVG(p.price),2) AS average_price
6      FROM pizzas p
7      JOIN pizza_types pt ON p.pizza_type_id = pt.pizza_type_id
8      GROUP BY pt.name;
9

```

Result Grid |   Filter Rows: | Export:  | Wrap Cell Content: 

	pizza_type	average_price
	The Barbecue Chicken Pizza	16.75
	The California Chicken Pizza	16.75
	The Chicken Alfredo Pizza	16.75
	The Chicken Pesto Pizza	16.75
	The Southwest Chicken Pizza	16.75
	The Thai Chicken Pizza	16.75
	The Big Meat Pizza	16.17
	The Classic Deluxe Pizza	16.17
	The Hawaiian Pizza	13.42
	The Italian Capocollo Pizza	16.17
	The Napolitana Pizza	16.17
	The Pepperoni, Mushroom, ...	14.33
	The Pepperoni Pizza	12.5

```
1      -- List the names of pizza types that has 'Chicken' ingredients.
2
3  ●    SELECT name
4        FROM pizza_types
5        WHERE ingredients LIKE '%chicken%';
6
```

Result Grid |   Filter Rows: | Export:  | Wrap Cell Content: 

	name
	The Barbecue Chicken Pizza
	The California Chicken Pizza
	The Chicken Alfredo Pizza
	The Chicken Pesto Pizza
	The Southwest Chicken Pizza
	The Thai Chicken Pizza

```

1      -- 1. Find the total sales for each pizza type.
2
3
4
5  •   SELECT pt.name AS pizza_type, COUNT(p.pizza_id) AS total_sales
6      FROM pizzas p
7      JOIN pizza_types pt ON p.pizza_type_id = pt.pizza_type_id
8      GROUP BY pt.name;
9

```

Result Grid



Filter Rows:

Export:



Wrap Cell Content:



	pizza_type	total_sales
▶	The Barbecue Chicken Pizza	3
	The California Chicken Pizza	3
	The Chicken Alfredo Pizza	3
	The Chicken Pesto Pizza	3
	The Southwest Chicken Pizza	3
	The Thai Chicken Pizza	3
	The Big Meat Pizza	3
	The Classic Deluxe Pizza	3
	The Hawaiian Pizza	3
	The Italian Capocollo Pizza	3
	The Napolitana Pizza	3
	The Pepperoni, Mushroom, ...	3
	The Penneroni Pizza	3

Result 2 x


```

1  -- List all pizzas along with their type names and categories
2  -- ,ordered by price in descending order.
3
4
5  •  SELECT p.pizza_id, pt.name AS pizza_type, pt.category, p.size, p.price
6     FROM pizzas p
7     JOIN pizza_types pt ON p.pizza_type_id = pt.pizza_type_id
8     ORDER BY p.price DESC;
9

```

Result Grid



Filter Rows:

Export:



Wrap Cell Content:



	pizza_id	pizza_type	category	size	price
▶	the_greek_xxl	The Greek Pizza	Classic	XXL	35.95
	the_greek_xl	The Greek Pizza	Classic	XL	25.5
	brie_carre_s	The Brie Carre Pizza	Supreme	S	23.65
	ital_veggie_l	The Italian Vegetables Pizza	Veggie	L	21
	spinach_supr_l	The Spinach Supreme Pizza	Supreme	L	20.75
	bbq_ckn_l	The Barbecue Chicken Pizza	Chicken	L	20.75
	cali_ckn_l	The California Chicken Pizza	Chicken	L	20.75
	spicy_ital_l	The Spicy Italian Pizza	Supreme	L	20.75
	ckn_alfredo_l	The Chicken Alfredo Pizza	Chicken	L	20.75
	ckn_pesto_l	The Chicken Pesto Pizza	Chicken	L	20.75
	ital_supr_l	The Italian Supreme Pizza	Supreme	L	20.75
	southw_ckn_l	The Southwest Chicken Pizza	Chicken	L	20.75
	prosciutto_arugula_l	The Prosciutto and Arugula	Supreme	L	20.75

Result 1 x



```

1      -- Find the average price of pizzas, grouped by both type and size.
2
3
4  ●    SELECT pt.name AS pizza_type, p.size, AVG(p.price) AS average_price
5        FROM pizzas p
6        JOIN pizza_types pt ON p.pizza_type_id = pt.pizza_type_id
7        GROUP BY pt.name, p.size;
8

```

Result Grid



Filter Rows:

Export:



Wrap Cell Content:



	pizza_type	size	average_price
▶	The Barbecue Chicken Pizza	S	12.75
	The Barbecue Chicken Pizza	M	16.75
	The Barbecue Chicken Pizza	L	20.75
	The California Chicken Pizza	S	12.75
	The California Chicken Pizza	M	16.75
	The California Chicken Pizza	L	20.75
	The Chicken Alfredo Pizza	S	12.75
	The Chicken Alfredo Pizza	M	16.75
	The Chicken Alfredo Pizza	L	20.75
	The Chicken Pesto Pizza	S	12.75
	The Chicken Pesto Pizza	M	16.75
	The Chicken Pesto Pizza	L	20.75
	The Southwest Chicken Pizza	S	12.75

Result 1 ✕

```
1  -- List all pizza types that do not have any pizzas available in 'Large' size.
2
3
4  ● SELECT pt.name
5     FROM pizza_types pt
6     LEFT JOIN pizzas p ON pt.pizza_type_id = p.pizza_type_id AND p.size = 'L'
7     WHERE p.pizza_id IS NULL;
8
```

Result Grid |   Filter Rows: | Export:  | Wrap Cell Content: 

	name
	The Brie Carre Pizza

