Nagwa Mohamad Elshamy

data analyst

Hello

im nagwa elshamy

About Me,

I help businesses turn raw data into clear, actionable insights.
My approach is simple: I don’t just analyze numbers – I translate them into stories that support better decisions. I start by cleaning and organizing data using Excel and Power Query, extract meaningful insights with SQL, and apply Python for deeper analysis and automation.
Finally, I bring everything together through interactive Power BI dashboards that make performance easy to track and insights easy to understand.
My goal is to help you see what matters, understand your data, and use it to grow your

رواد مصر الرقمية

Education

"Student in the Egypt Digital Pioneers Initiative(DEPI)

Specialization in Data Analysis

2025/2026

technical *Skills*

Excel

Data cleaning, transformation, and analysis using formulas, Pivot Tables, Power Query, and dynamic reports to organize data and uncover insights.

SQL

Querying databases to extract, filter, join, and analyze large datasets, answering business questions with accurate and efficient queries.

Python

Data analysis and automation using libraries such as Pandas and NumPy to explore data, identify patterns, and improve efficiency.

Power BI

Power BI

Building interactive dashboards and visual reports, creating data models, DAX measures, and KPIs to turn insights into clear, decision-ready visual

Work *Experience*

Data Analyst | Academic & Personal Projects

2025/2026

Cleaned and transformed raw datasets using Power Query
Built SQL databases from scratch and loaded cleaned data
Wrote SQL queries to analyze sales, revenue, and customer behavior
Answered real business questions using aggregations and filtering
Ensured data accuracy by handling duplicates, data types, and text inconsistencies
Delivered clear insights to support data-driven decisions

Dashboard

Coca-Cola Sales Data Analysis

Project

Portfolio

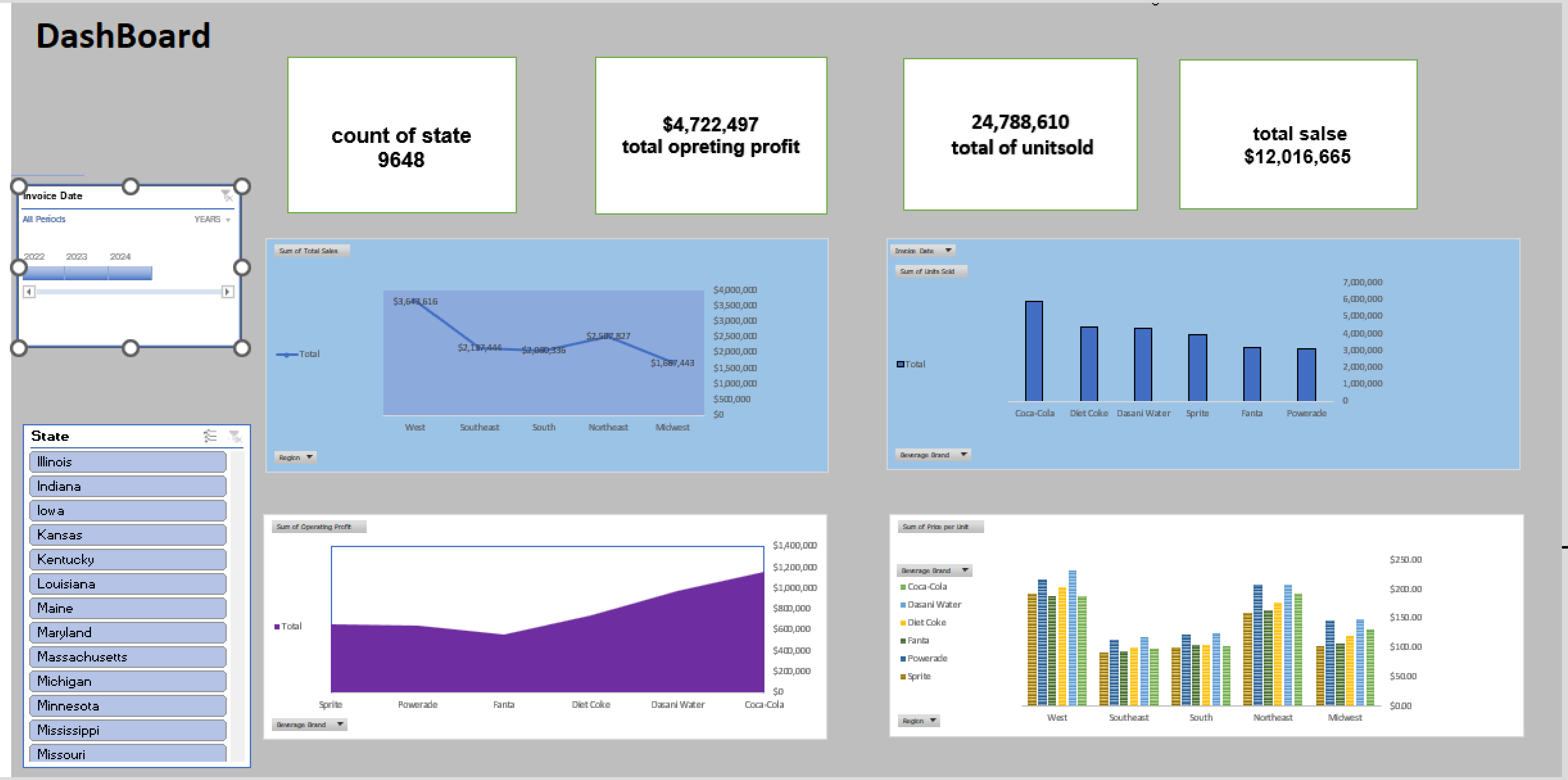
Project 1

Coca-Cola Sales Data Analysis

An interactive dashboard that provides a clear overview of sales and profitability performance.

Includes:

- Key KPIs: Total Sales, Operating Profit, Units Sold
- Sales analysis by product and region
- Profit comparison across products
- Average price analysis by region
- Interactive filters by year and state



Project 2

تصميم قاعدة بيانات وتحليلها

Database Design & Data Analysis Using SQL

In this project, I designed and analyzed a relational database using SQL.

I created tables, inserted structured data, and wrote SQL queries to answer real business questions and extract meaningful insights from the dat

- What I Did
  - Designed the database structure using CREATE TABLE
  - Inserted and populated data using INSERT INTO
  - Applied data types, primary keys, and relationships
  - Wrote SQL queries to:
    - Retrieve specific data
    - Filter and sort records
    - Aggregate data using COUNT, SUM, AVG
    - Answer business-related questions

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```sql
create database excersies
create table student(
student_id  int primary key ,
first_name  varchar(50),
last_name varchar(50),
date_of_birth date,
enrollmentdate date,
email varchar(100),
age int);

create table courses(
course_id int primary key ,
course_name varchar (100),
credits int ,
department varchar(50) );

create table professors(
prof_id  int primary key ,
firstname varchar(50),
lastname varchar(50),
department varchar(50),
email varchar(100) );

create table Enrollment(
enrollment_id int primary key,
student_id int,
courseid int,
grade char(2),
semester varchar(10),
constraint FK_Enrollment_student
foreign key (student_id) references student( student_id),
constraint FK_Enrollment_courses
foreign key (courseid )references courses(course_id) );
```

```sql
--------Q3)Update the email address of the student with StudentID = 1. */


select * from Student

update Student
set email = 'john.doe@newmail.com'
where student_id = 1

/* Q4) Delete the student record with StudentID = 5. */

select * from Student

delete from Enrollment
where student_id = 5

delete from Student
where student_id = 5

/* Q5) Retrieve all student records from the Student table. */

select * from Student

/* Q6) Retrieve the FirstName and LastName of students enrolled after '2018-01-01'. */

select first_name ,last_name, EnrollmentDate
from Student
where EnrollmentDate > '2018-01-01'

/* Q7) Count the total number of students in the Students table. */

select count(*) as [Total students]
from Student
```

SQLQuery1 3...NICAL (81)) SQLQuery1.sq...HNICAL (79))

```sql
insert into student
values
(1, 'John', 'Doe', '2000-01-01', '2018-09-01', 'john.doe@example.com', null),
(2, 'Jane', 'Smith', '1999-05-15', '2017-09-01', 'jane.smith@example.com',21),
(3, 'Robert', 'Brown', '2001-11-21', '2019-09-01', 'robert.brown@example.com',25),
(4, 'Emily', 'Jones', '2002-03-03', '2020-09-01', 'emily.jones@example.com',22),
(5, 'Michael', 'Davis', '1998-07-22', '2016-09-01', 'michael.davis@example.com',23),
(6, 'Linda', 'Wilson', '2000-12-12', '2018-09-01', 'linda.wilson@example.com',21),
(7, 'James', 'Taylor', '2001-03-14', '2019-09-01', 'james.taylor@example.com',22),
(8, 'Sarah', 'Lee', '2002-07-07', '2020-09-01', 'sarah.lee@example.com',23),
(9, 'David', 'Martin', '1999-11-11', '2017-09-01', 'david.martin@example.com',24),
(10, 'Susan', 'Clark', '2001-05-05', '2019-09-01', 'susan.clark@example.com',22);


insert into courses
values (1, 'Introduction to SQL', 3, 'Computer Science'),
(2, 'Data Structures', 4, 'Computer Science'),
(3, 'Database Management Systems', 3, 'Information Technology'),
(4, 'Algorithms', 4, 'Computer Science'),
(5, 'Operating Systems', 3, 'Information Technology'),
(6, 'Web Development', 3, 'Computer Science'),
(7, 'Computer Networks', 3, 'Information Technology');


insert into Enrollment
values(1, 1, 2, 'A', 'Fall2020'),
(2, 2, 3, 'B+', 'Spring2021'),
(3, 3, 2, 'A-', 'Fall2021'),
(4, 4, 3, 'B', 'Spring2022'),
(5, 2, 2, 'A', 'Fall2020'),
(6, 5, 1, 'B+', 'Fall2020'),
(7, 6, 4, 'A', 'Spring2021'),
(8, 7, 5, 'B', 'Fall2021'),
(9, 8, 6, 'A-', 'Spring2022'),
(10, 9, 7, 'B+', 'Fall2020'),
```

Project 3

Pizza Sales Data Cleaning & Analysis (Power Query & SQL)

in this project, I cleaned and prepared raw pizza sales data using Power Query, then loaded it into a SQL database to perform data analysis and answer business questions related to sales performance and customer behavior .

After cleaning the data, I loaded it into a SQL database

Database Operations:

Created a new database

CREATE DATABASE pizza_sales

Verified data integrity using SELECT

Loaded the cleaned table into SQL.

SQL Analysis Summary

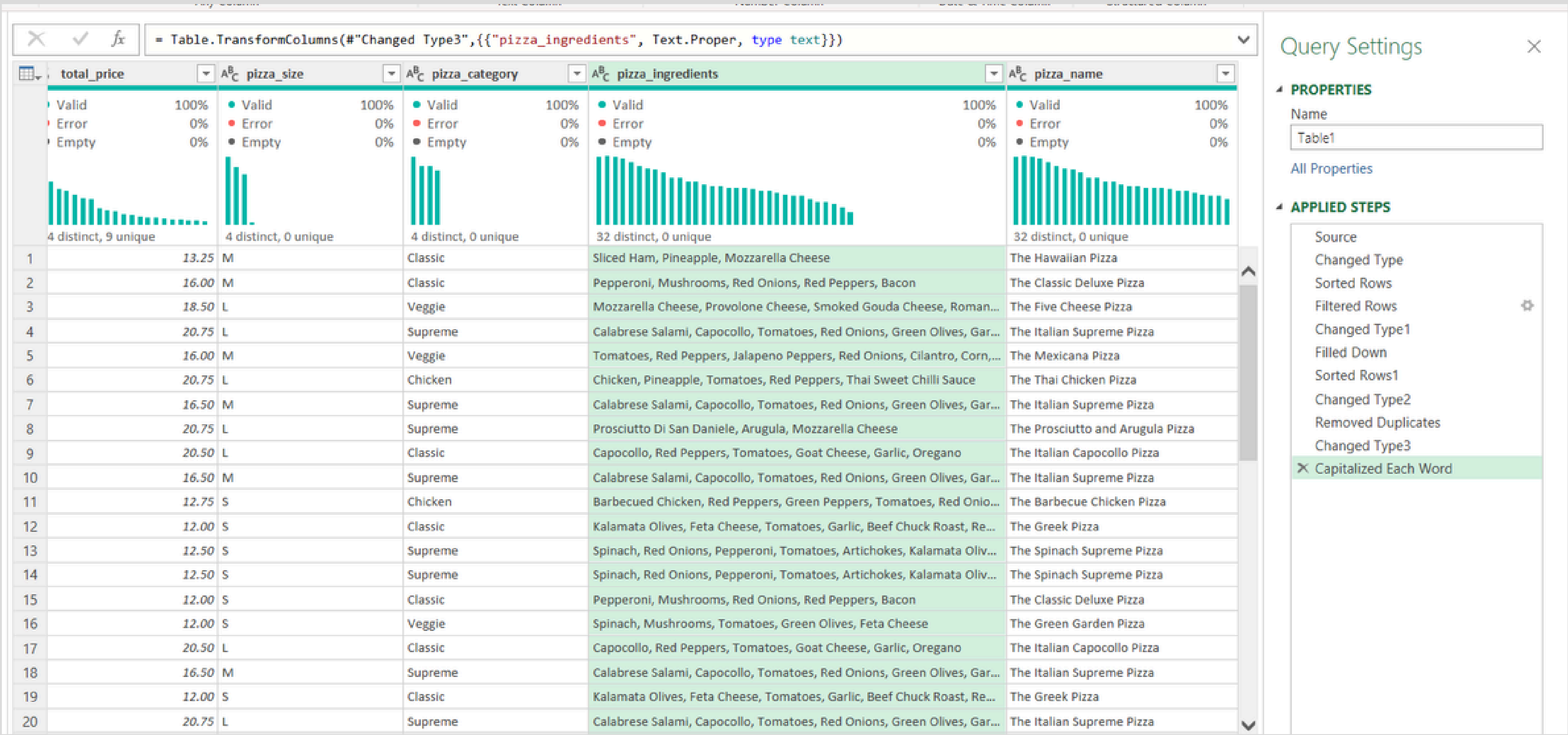
Identified the top 5 most ordered pizzas

Calculated total revenue for a specific pizza

Analyzed order trends by date

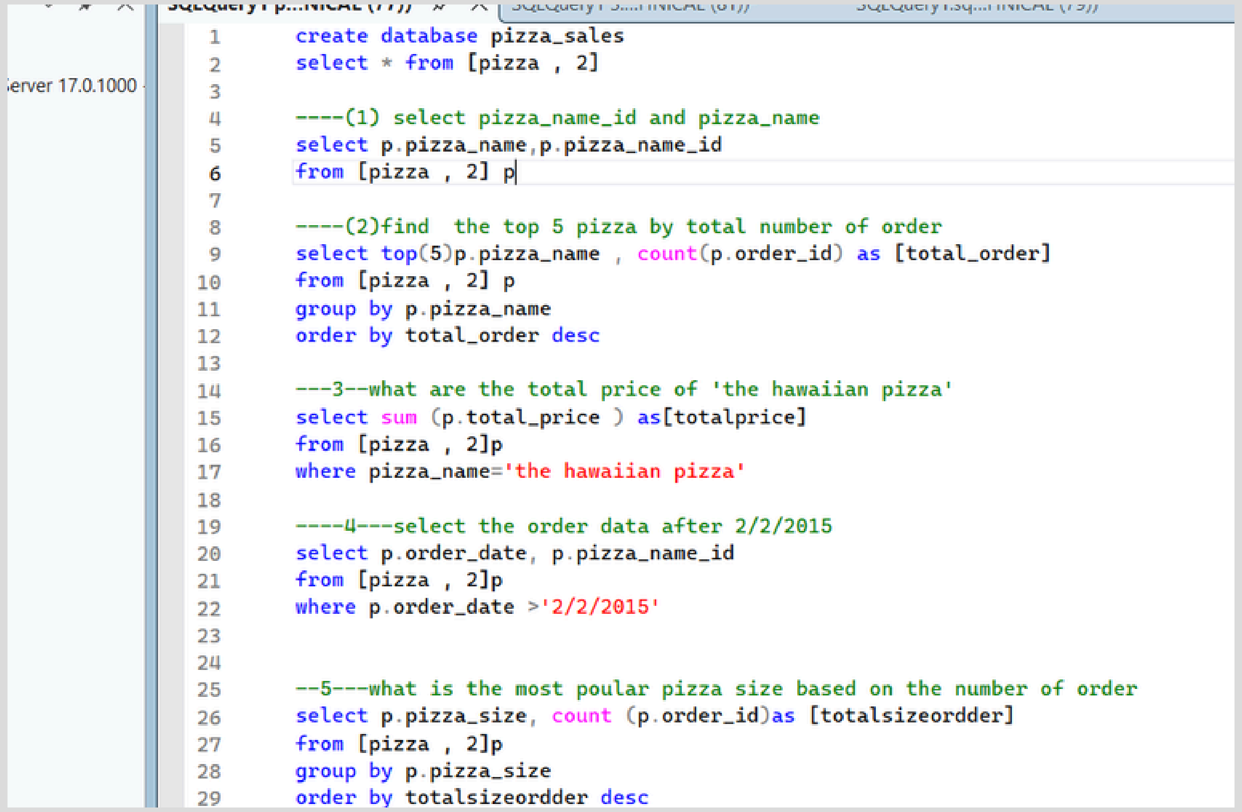
Determined the most popular pizza size

Used aggregation functions to support business decisions



```
= Table.TransformColumns(#"Changed Type3",{{"pizza_ingredients", Text.Proper, type text}})
```

	total_price	pizza_size	pizza_category	pizza_ingredients	pizza_name
	Valid 100% / Error 0% / Empty 0%	Valid 100% / Error 0% / Empty 0%	Valid 100% / Error 0% / Empty 0%	Valid 100% / Error 0% / Empty 0%	Valid 100% / Error 0% / Empty 0%
	4 distinct, 9 unique	4 distinct, 0 unique	4 distinct, 0 unique	32 distinct, 0 unique	32 distinct, 0 unique
1	13.25	M	Classic	Sliced Ham, Pineapple, Mozzarella Cheese	The Hawaiian Pizza
2	16.00	M	Classic	Pepperoni, Mushrooms, Red Onions, Red Peppers, Bacon	The Classic Deluxe Pizza
3	18.50	L	Veggie	Mozzarella Cheese, Provolone Cheese, Smoked Gouda Cheese, Roman...	The Five Cheese Pizza
4	20.75	L	Supreme	Calabrese Salami, Capocollo, Tomatoes, Red Onions, Green Olives, Gar...	The Italian Supreme Pizza
5	16.00	M	Veggie	Tomatoes, Red Peppers, Jalapeno Peppers, Red Onions, Cilantro, Corn,...	The Mexicana Pizza
6	20.75	L	Chicken	Chicken, Pineapple, Tomatoes, Red Peppers, Thai Sweet Chilli Sauce	The Thai Chicken Pizza
7	16.50	M	Supreme	Calabrese Salami, Capocollo, Tomatoes, Red Onions, Green Olives, Gar...	The Italian Supreme Pizza
8	20.75	L	Supreme	Prosciutto Di San Daniele, Arugula, Mozzarella Cheese	The Prosciutto and Arugula Pizza
9	20.50	L	Classic	Capocollo, Red Peppers, Tomatoes, Goat Cheese, Garlic, Oregano	The Italian Capocollo Pizza
10	16.50	M	Supreme	Calabrese Salami, Capocollo, Tomatoes, Red Onions, Green Olives, Gar...	The Italian Supreme Pizza
11	12.75	S	Chicken	Barbecued Chicken, Red Peppers, Green Peppers, Tomatoes, Red Onio...	The Barbecue Chicken Pizza
12	12.00	S	Classic	Kalamata Olives, Feta Cheese, Tomatoes, Garlic, Beef Chuck Roast, Re...	The Greek Pizza
13	12.50	S	Supreme	Spinach, Red Onions, Pepperoni, Tomatoes, Artichokes, Kalamata Oliv...	The Spinach Supreme Pizza
14	12.50	S	Supreme	Spinach, Red Onions, Pepperoni, Tomatoes, Artichokes, Kalamata Oliv...	The Spinach Supreme Pizza
15	12.00	S	Classic	Pepperoni, Mushrooms, Red Onions, Red Peppers, Bacon	The Classic Deluxe Pizza
16	12.00	S	Veggie	Spinach, Mushrooms, Tomatoes, Green Olives, Feta Cheese	The Green Garden Pizza
17	20.50	L	Classic	Capocollo, Red Peppers, Tomatoes, Goat Cheese, Garlic, Oregano	The Italian Capocollo Pizza
18	16.50	M	Supreme	Calabrese Salami, Capocollo, Tomatoes, Red Onions, Green Olives, Gar...	The Italian Supreme Pizza
19	12.00	S	Classic	Kalamata Olives, Feta Cheese, Tomatoes, Garlic, Beef Chuck Roast, Re...	The Greek Pizza
20	20.75	L	Supreme	Calabrese Salami, Capocollo, Tomatoes, Red Onions, Green Olives, Gar...	The Italian Supreme Pizza



```sql
create database pizza_sales
select * from [pizza , 2]

----(1) select pizza_name_id and pizza_name
select p.pizza_name,p.pizza_name_id
from [pizza , 2] p

----(2)find  the top 5 pizza by total number of order
select top(5)p.pizza_name , count(p.order_id) as [total_order]
from [pizza , 2] p
group by p.pizza_name
order by total_order desc

---3--what are the total price of 'the hawaiian pizza'
select sum (p.total_price ) as[totalprice]
from [pizza , 2]p
where pizza_name='the hawaiian pizza'

----4---select the order data after 2/2/2015
select p.order_date, p.pizza_name_id
from [pizza , 2]p
where p.order_date >'2/2/2015'


--5---what is the most poular pizza size based on the number of order
select p.pizza_size, count (p.order_id)as [totalsizeordder]
from [pizza , 2]p
group by p.pizza_size
order by totalsizeordder desc
```

Let's Work

Together

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