CODE EXPLANATION

**PIZZA SALES SQL QUERIES**

**A. KPI’s**

**1. Total Revenue:**

SELECT SUM(total\_price) AS Total\_Revenue FROM pizza\_sales;

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**2. Average Order Value**

SELECT (SUM(total\_price) / COUNT(DISTINCT order\_id)) AS Avg\_order\_Value FROM pizza\_sales

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**3. Total Pizzas Sold**

SELECT SUM(quantity) AS Total\_pizza\_sold FROM pizza\_sales

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**4. Total Orders**

SELECT COUNT(DISTINCT order\_id) AS Total\_Orders FROM pizza\_sales

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**5. Average Pizzas Per Order**

SELECT CAST(CAST(SUM(quantity) AS DECIMAL(10,2)) /

CAST(COUNT(DISTINCT order\_id) AS DECIMAL(10,2)) AS DECIMAL(10,2))

AS Avg\_Pizzas\_per\_order

FROM pizza\_sales

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**B. Daily Trend for Total Orders**SELECT DATENAME(DW, order\_date) AS order\_day, COUNT(DISTINCT order\_id) AS total\_orders

FROM pizza\_sales

GROUP BY DATENAME(DW, order\_date)

***Output:***

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**C. Monthly Trend for Orders**

select DATENAME(MONTH, order\_date) as Month\_Name, COUNT(DISTINCT order\_id) as Total\_Orders

from pizza\_sales

GROUP BY DATENAME(MONTH, order\_date)***Output***

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**D. % of Sales by Pizza Category**

SELECT pizza\_category, CAST(SUM(total\_price) AS DECIMAL(10,2)) as total\_revenue,

CAST(SUM(total\_price) \* 100 / (SELECT SUM(total\_price) from pizza\_sales) AS DECIMAL(10,2)) AS PCT

FROM pizza\_sales

GROUP BY pizza\_category

***Output***

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**E. % of Sales by Pizza Size**

SELECT pizza\_size, CAST(SUM(total\_price) AS DECIMAL(10,2)) as total\_revenue,

CAST(SUM(total\_price) \* 100 / (SELECT SUM(total\_price) from pizza\_sales) AS DECIMAL(10,2)) AS PCT

FROM pizza\_sales

GROUP BY pizza\_size

ORDER BY pizza\_size

***Output***

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**F. Total Pizzas Sold by Pizza Category**

SELECT pizza\_category, SUM(quantity) as Total\_Quantity\_Sold

FROM pizza\_sales

WHERE MONTH(order\_date) = 2

GROUP BY pizza\_category

ORDER BY Total\_Quantity\_Sold DESC

***Output***

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**G. Top 5 Pizzas by Revenue**

SELECT Top 5 pizza\_name, SUM(total\_price) AS Total\_Revenue

FROM pizza\_sales

GROUP BY pizza\_name

ORDER BY Total\_Revenue DESC

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**H. Bottom 5 Pizzas by Revenue**

SELECT Top 5 pizza\_name, SUM(total\_price) AS Total\_Revenue

FROM pizza\_sales

GROUP BY pizza\_name

ORDER BY Total\_Revenue ASC

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**I. Top 5 Pizzas by Quantity**

SELECT Top 5 pizza\_name, SUM(quantity) AS Total\_Pizza\_Sold

FROM pizza\_sales

GROUP BY pizza\_name

ORDER BY Total\_Pizza\_Sold DESC

***Output***

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**J. Bottom 5 Pizzas by Quantity**

SELECT TOP 5 pizza\_name, SUM(quantity) AS Total\_Pizza\_Sold

FROM pizza\_sales

GROUP BY pizza\_name

ORDER BY Total\_Pizza\_Sold ASC

***Output***

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**K. Top 5 Pizzas by Total Orders**

SELECT Top 5 pizza\_name, COUNT(DISTINCT order\_id) AS Total\_Orders

FROM pizza\_sales

GROUP BY pizza\_name

ORDER BY Total\_Orders DESC

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**L. Bottom 5 Pizzas by Total Orders**

SELECT Top 5 pizza\_name, COUNT(DISTINCT order\_id) AS Total\_Orders

FROM pizza\_sales

GROUP BY pizza\_name

ORDER BY Total\_Orders ASC

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**sqlCode1**

**SELECT DATENAME(DW, order\_date) as order\_day, COUNT(DISTINCT order\_id) as total\_orders FROM pizza\_sales WHERE DATEPART(QUARTER, order\_date) = 1 GROUP BY DATENAME(DW, order\_date)**

Exp:

1. **SELECT clause:**
   * **DATENAME(DW, order\_date) as order\_day**: This expression extracts the day of the week (**DW** stands for Day of the Week) from the **order\_date** column and aliases it as **order\_day**.
   * **COUNT(DISTINCT order\_id) as total\_orders**: This expression counts the distinct **order\_id** values and aliases the result as **total\_orders**.
2. **FROM clause:**
   * **pizza\_sales**: This specifies the table from which the data is being selected (**pizza\_sales**).
3. **WHERE clause:**
   * **DATEPART(QUARTER, order\_date) = 1**: This condition filters the rows based on the quarter of the **order\_date**. It selects only rows where the quarter is equal to 1.
4. **GROUP BY clause:**
   * **DATENAME(DW, order\_date)**: This groups the result set by the day of the week (**DW**) extracted from the **order\_date**.

In summary, this query counts the number of distinct orders for each day of the week (**order\_day**) in the first quarter (**QUARTER = 1**) of the **order\_date**. It provides a breakdown of the total number of orders for each day of the week in the specified quarter.

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sqlCode2

**SELECT DATEPART(HOUR, order\_time\_fixed) as order\_hours, COUNT(DISTINCT order\_id) as total\_orders FROM pizza\_sales group by DATEPART(HOUR, order\_time\_fixed) order by DATEPART(HOUR, order\_time\_fixed)**

Explanation:

1. **SELECT clause:**
   * **DATEPART(HOUR, order\_time\_fixed) as order\_hours**: Extracts the hour part from the **order\_time\_fixed** column and aliases it as **order\_hours**.
   * **COUNT(DISTINCT order\_id) as total\_orders**: Counts the distinct values of the **order\_id** column and aliases it as **total\_orders**.
2. **FROM clause:**
   * **pizza\_sales**: Specifies the table from which the data is being selected.
3. **GROUP BY clause:**
   * **DATEPART(HOUR, order\_time\_fixed)**: Groups the results by the hour part of the **order\_time\_fixed** column.
4. **ORDER BY clause:**
   * **ORDER BY DATEPART(HOUR, order\_time\_fixed)**: Orders the results by the hour part of the **order\_time\_fixed** column.

In summary, the query provides a breakdown of the total number of distinct orders for each hour of the day based on the **order\_time\_fixed** column. The results are grouped and ordered by the hour part of the timestamp.

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**sqlCode3**

**SELECT pizza\_category, CAST(SUM(total\_price) as DECIMAL (10,2)) as total\_revenue, CAST(SUM(total\_price) \* 100 / (SELECT SUM(total\_price) from pizza\_sales) AS DECIMAL(10,2)) as PCT FROM pizza\_sales GROUP BY pizza\_category**

Explanation:

* **pizza\_category**: This is the column by which you are grouping the results.
* **SUM(total\_price)**: This calculates the total revenue for each **pizza\_category**.
* **CAST(SUM(total\_price) AS DECIMAL(10,2))**: This casts the total revenue to a **DECIMAL** with a precision of 10 and a scale of 2.
* **CAST(SUM(total\_price) \* 100 / (SELECT SUM(total\_price) FROM pizza\_sales) AS DECIMAL(10,2))**: This calculates the percentage of total revenue for each **pizza\_category** and casts it to a **DECIMAL** with a precision of 10 and a scale of 2.
* **GROUP BY pizza\_category**: This groups the results by the **pizza\_category** column.

Make sure that the column names and table names match your actual schema. Also, be cautious when dealing with percentage calculations, as it may result in unexpected behavior if the total sum is zero or null.

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