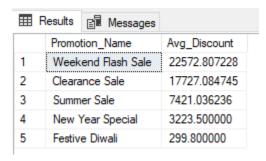# E-commerce Sales SQL Queries

Average Discount:

```sql
SELECT
    p.Promotion_Name,
        SUM(f.Units_Sold * pr.Price_INR * (p.Price_Reduction_Type /
100.00)) / COUNT(f.Product_ID) AS Avg_Discount
FROM fact_table f
JOIN dim_product pr ON f.Product_ID = pr.ProductID
RIGHT JOIN dim_promotion p ON f.PromotionID = p.PromotionID
GROUP BY p.Promotion_Name
ORDER BY Avg_Discount DESC;
```
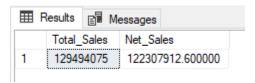
	Promotion_Name	Avg_Discount
1	Weekend Flash Sale	22572.807228
2	Clearance Sale	17727.084745
3	Summer Sale	7421.036236
4	New Year Special	3223.500000
5	Festive Diwali	299.800000

Total Sales and Net Sales:

```sql
SELECT
      SUM(f.Units_Sold * pr.Price_INR) AS Total_Sales,
      SUM(f.Units_Sold * pr.Price_INR) - SUM(f.Units_Sold *
pr.Price_INR * (p.Price_Reduction_Type / 100.00)) AS Net_Sales
FROM fact_table f
JOIN dim_product pr ON f.Product_ID = pr.ProductID
LEFT JOIN dim_promotion p ON f.PromotionID = p.PromotionID
```

	Total_Sales	Net_Sales
1	129494075	122307912.600000

Net Sales by Year:

```sql
SELECT
    DATENAME(YYYY, f.Date_dd_mm_yyyy),
    SUM(f.Units_Sold * pr.Price_INR) - SUM(f.Units_Sold *
pr.Price_INR * (p.Price_Reduction_Type / 100.00)) AS Net_Sales
FROM fact_table f
JOIN dim_product pr ON f.Product_ID = pr.ProductID
LEFT JOIN dim_promotion p ON f.PromotionID = p.PromotionID
GROUP BY DATENAME(YYYY, f.Date_dd_mm_yyyy);
```

	(No column name)	Net_Sales
1	2020	31366267.000000
2	2021	29951422.500000
3	2022	28641357.000000
4	2023	32298868.100000
5	2024	NULL

Top 5 Products by Sale:

```sql
SELECT
    pr.Product_Name,
    SUM(f.Units_Sold * pr.Price_INR) - SUM(f.Units_Sold *
pr.Price_INR * (p.Price_Reduction_Type / 100.00)) AS Net_Sales
FROM fact_table f
JOIN dim_product pr ON f.Product_ID = pr.ProductID
LEFT JOIN dim_promotion p ON f.PromotionID = p.PromotionID
GROUP BY pr.Product_Name
ORDER BY Net_Sales DESC
```

	Product_Name	Net_Sales
1	Apple iPhone 14	21439732.000000
2	Apple MacBook Air	19646787.600000
3	Sony Bravia 55" TV	19358784.900000
4	Samsung Galaxy S21	15308781.300000
5	HP Pavilion Laptop	14351779.200000

Top 5 Products by Quantity:

```sql
SELECT
    pr.Product_Name,
    SUM(f.Units_Sold) AS Quantity
FROM fact_table f
JOIN dim_product pr ON f.Product_ID = pr.ProductID
GROUP BY pr.Product_Name
ORDER BY Quantity DESC
```

	Product_Name	Quantity
1	Apple iPhone 14	281
2	Raymond Suit	274
3	Zara Casual Shirt	269
4	Fossil Smartwatch	269
5	IFB Microwave Oven	259

Bottom 5 Products by Sale:

```sql
SELECT
    pr.Product_Name,
    SUM(f.Units_Sold * pr.Price_INR) - SUM(f.Units_Sold *
pr.Price_INR * (p.Price_Reduction_Type / 100.00)) AS Net_Sales
FROM fact_table f
JOIN dim_product pr ON f.Product_ID = pr.ProductID
LEFT JOIN dim_promotion p ON f.PromotionID = p.PromotionID
GROUP BY pr.Product_Name
ORDER BY Net_Sales ASC
```

	Product_Name	Net_Sales
1	Colgate Toothpaste	21087.000000
2	Dove Soap Pack	81037.800000
3	Nivea Body Lotion	82712.700000
4	L'Oreal Shampoo	167690.100000
5	Tupperware Lunch Box	259280.400000

Bottom 5 Products by Quantity:

```sql
SELECT
      pr.Product_Name,
      SUM(f.Units_Sold) AS Quantity
FROM fact_table f
JOIN dim_product pr ON f.Product_ID = pr.ProductID
GROUP BY pr.Product_Name
ORDER BY Quantity ASC
```

	Product_Name	Quantity
1	Borosil Glass Set	203
2	FabIndia Kurta	210
3	Milton Thermos Flask	214
4	Tupperware Lunch Box	215
5	Nivea Body Lotion	219

Top 5 Pizzas by Quantity:

```sql
SELECT Top 5
      pizza_name,
      SUM(quantity) AS Total_Pizzas_Sold
FROM pizza_sales
GROUP BY pizza_name
ORDER BY Total_Pizzas_Sold DESC
```

	pizza_name	Total_Pizzas_Sold
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

Bottom 5 Pizzas by Quantity:

```sql
SELECT Top 5
     pizza_name,
     SUM(quantity) AS Total_Pizzas_Sold
FROM pizza_sales
GROUP BY pizza_name
ORDER BY Total_Pizzas_Sold ASC
```

	pizza_name	Total_Pizzas_Sold
1	The Brie Carre Pizza	490
2	The Mediterranean Pizza	934
3	The Calabrese Pizza	937
4	The Spinach Supreme Pizza	950
5	The Soppressata Pizza	961