

## OUTPUT RESULT : MONDAY COFFEE SALES ANALYSIS USING SQL

**Q1. What is the estimated number of coffee consumers in each city, assuming that 25% of the total population consumes coffee?**

| city_name | coffee_consumers_by_city | city_rank |
|-----------|--------------------------|-----------|
| Delhi     | 7.75                     | 3         |
| Mumbai    | 5.10                     | 2         |
| Kolkata   | 3.73                     | 7         |
| Bangalore | 3.08                     | 1         |
| Chennai   | 2.78                     | 6         |
| Hyderabad | 2.50                     | 4         |
| Ahmedabad | 2.08                     | 5         |
| Pune      | 1.88                     | 9         |
| Surat     | 1.80                     | 10        |
| Jaipur    | 1.00                     | 8         |
| Lucknow   | 0.95                     | 11        |
| Indore    | 0.83                     | 14        |
| Kanpur    | 0.78                     | 12        |
| Nagpur    | 0.73                     | 13        |

**Q2(A). How much revenue did coffee sales generate across all cities in Q4 2023?**

|   | total_revenue |
|---|---------------|
| ▶ | 1963300       |

**Q2(B). Revenue from coffee sales in top 05 cities during Q4 2023**

| city_name | total_revenue |
|-----------|---------------|
| Pune      | 434330        |
| Chennai   | 302500        |
| Bangalore | 270780        |
| Jaipur    | 248580        |
| Delhi     | 238490        |

**Q3. What is the total number of units sold for each coffee product?**

| coffee_product                     | total_units_sold |
|------------------------------------|------------------|
| Cold Brew Coffee Pack (6 Bottles)  | 1326             |
| Ground Espresso Coffee (250g)      | 1271             |
| Instant Coffee Powder (100g)       | 1226             |
| Coffee Beans (500g)                | 1218             |
| Tote Bag with Coffee Design        | 776              |
| Vanilla Coffee Syrup (250ml)       | 762              |
| Cold Brew Concentrate (500ml)      | 312              |
| Organic Green Coffee Beans (500g)  | 307              |
| Coffee Art Print                   | 296              |
| Flavored Coffee Pods (Pack of 10)  | 295              |
| Coffee Drip Bags (10 Bags)         | 289              |
| Insulated Travel Mug               | 273              |
| Coffee Gift Hamper                 | 270              |
| Specialty Coffee Subscription      | 258              |
| Customizable Coffee Coaster Set    | 258              |
| French Press Coffee Set            | 257              |
| Caramel Syrup (250ml)              | 96               |
| Coffee Plant Kit (DIY)             | 91               |
| Coffee Bean Storage Canister       | 89               |
| Coffee Recipe Book                 | 88               |
| Mocha Flavored Coffee Mix (200g)   | 86               |
| Personalized Coffee Spoon          | 83               |
| Coffee-Themed T-Shirt              | 82               |
| Reusable Coffee Cup (Eco-friendly) | 78               |
| Glass Coffee Jar (500ml)           | 77               |

**Q4. What is the average sales amount per customer in each city?**

| city_name | total_revenue | no_of_orders_placed_customer | total_customers | avg_sales_per_customer |
|-----------|---------------|------------------------------|-----------------|------------------------|
| Pune      | 1258290       | 2135                         | 52              | 24197.88               |
| Chennai   | 944120        | 1601                         | 42              | 22479.05               |
| Bangalore | 860110        | 1464                         | 39              | 22054.1                |
| Jaipur    | 803450        | 1377                         | 69              | 11644.2                |
| Delhi     | 750420        | 1305                         | 68              | 11035.59               |
| Mumbai    | 235000        | 423                          | 27              | 8703.7                 |
| Kanpur    | 213550        | 372                          | 35              | 6101.43                |
| Surat     | 176540        | 297                          | 27              | 6538.52                |
| Kolkata   | 171460        | 286                          | 28              | 6123.57                |
| Nagpur    | 140050        | 253                          | 24              | 5835.42                |
| Indore    | 138590        | 231                          | 21              | 6599.52                |
| Ahmedabad | 137690        | 225                          | 23              | 5986.52                |
| Hyderabad | 131520        | 221                          | 21              | 6262.86                |
| Lucknow   | 109400        | 198                          | 21              | 5209.52                |

**Q5. Provide a list of cities along with their populations and estimated coffee consumers.**

| city_name | coffee_consumer_in_millions | unique_cx |
|-----------|-----------------------------|-----------|
| Bangalore | 3.08                        | 39        |
| Chennai   | 2.78                        | 42        |
| Pune      | 1.88                        | 52        |
| Jaipur    | 1.00                        | 69        |
| Delhi     | 7.75                        | 68        |
| Mumbai    | 5.10                        | 27        |
| Hyderabad | 2.50                        | 21        |
| Ahmedabad | 2.08                        | 23        |
| Kolkata   | 3.73                        | 28        |
| Surat     | 1.80                        | 27        |
| Lucknow   | 0.95                        | 21        |
| Kanpur    | 0.78                        | 35        |
| Nagpur    | 0.73                        | 24        |
| Indore    | 0.83                        | 21        |

**Q6. Identify the top 3 products by sales volume for every city.**

| city_name | product_name                      | total_orders | ranking |
|-----------|-----------------------------------|--------------|---------|
| Ahmedabad | Cold Brew Coffee Pack (6 Bottles) | 40           | 1       |
| Ahmedabad | Coffee Beans (500g)               | 35           | 2       |
| Ahmedabad | Instant Coffee Powder (100g)      | 26           | 3       |
| Bangalore | Cold Brew Coffee Pack (6 Bottles) | 197          | 1       |
| Bangalore | Ground Espresso Coffee (250g)     | 167          | 2       |
| Bangalore | Instant Coffee Powder (100g)      | 150          | 3       |
| Chennai   | Cold Brew Coffee Pack (6 Bottles) | 192          | 1       |
| Chennai   | Coffee Beans (500g)               | 181          | 2       |
| Chennai   | Instant Coffee Powder (100g)      | 172          | 3       |
| Delhi     | Ground Espresso Coffee (250g)     | 183          | 1       |
| Delhi     | Instant Coffee Powder (100g)      | 170          | 2       |
| Delhi     | Coffee Beans (500g)               | 161          | 3       |
| Hyderabad | Instant Coffee Powder (100g)      | 36           | 1       |
| Hyderabad | Cold Brew Coffee Pack (6 Bottles) | 28           | 2       |
| Hyderabad | Ground Espresso Coffee (250g)     | 27           | 3       |
| Indore    | Instant Coffee Powder (100g)      | 33           | 1       |
| Indore    | Ground Espresso Coffee (250g)     | 26           | 2       |
| Indore    | Cold Brew Coffee Pack (6 Bottles) | 26           | 2       |
| Indore    | Coffee Beans (500g)               | 23           | 3       |

**Q7. How many unique customers are there in each city who have purchased coffee products and not merchandise?**

| city_name | unique_customer |
|-----------|-----------------|
| Ahmedabad | 23              |
| Bangalore | 39              |
| Chennai   | 42              |
| Delhi     | 68              |
| Hyderabad | 21              |
| Indore    | 21              |
| Jaipur    | 69              |
| Kanpur    | 35              |
| Kolkata   | 28              |
| Lucknow   | 21              |
| Mumbai    | 27              |
| Nagpur    | 24              |
| Pune      | 52              |
| Surat     | 27              |

**Q8. Find each city and their average sale per customer and average rent per customer**

Comparing wrt average rent per customer

| city_name | estimated_rent | total_cx | avg_sale_pr_cx | avg_rent_per_cx |
|-----------|----------------|----------|----------------|-----------------|
| Mumbai    | 31500          | 27       | 8703.7         | 1166.67         |
| Hyderabad | 22500          | 21       | 6262.86        | 1071.43         |
| Bangalore | 29700          | 39       | 22054.1        | 761.54          |
| Ahmedabad | 14400          | 23       | 5986.52        | 626.09          |
| Kolkata   | 16200          | 28       | 6123.57        | 578.57          |
| Surat     | 13500          | 27       | 6538.52        | 500             |
| Lucknow   | 9000           | 21       | 5209.52        | 428.57          |
| Chennai   | 17100          | 42       | 22479.05       | 407.14          |
| Delhi     | 22500          | 68       | 11035.59       | 330.88          |
| Nagpur    | 7200           | 24       | 5835.42        | 300             |
| Indore    | 6300           | 21       | 6599.52        | 300             |
| Pune      | 15300          | 52       | 24197.88       | 294.23          |
| Kanpur    | 8100           | 35       | 6101.43        | 231.43          |
| Jaipur    | 10800          | 69       | 11644.2        | 156.52          |

### Comparing wrt average sales per customer

| city_name | estimated_rent | total_cx | avg_sale_pr_cx | avg_rent_per_cx |
|-----------|----------------|----------|----------------|-----------------|
| Pune      | 15300          | 52       | 24197.88       | 294.23          |
| Chennai   | 17100          | 42       | 22479.05       | 407.14          |
| Bangalore | 29700          | 39       | 22054.1        | 761.54          |
| Jaipur    | 10800          | 69       | 11644.2        | 156.52          |
| Delhi     | 22500          | 68       | 11035.59       | 330.88          |
| Mumbai    | 31500          | 27       | 8703.7         | 1166.67         |
| Indore    | 6300           | 21       | 6599.52        | 300             |
| Surat     | 13500          | 27       | 6538.52        | 500             |
| Hyderabad | 22500          | 21       | 6262.86        | 1071.43         |
| Kolkata   | 16200          | 28       | 6123.57        | 578.57          |
| Kanpur    | 8100           | 35       | 6101.43        | 231.43          |
| Ahmedabad | 14400          | 23       | 5986.52        | 626.09          |
| Nagpur    | 7200           | 24       | 5835.42        | 300             |
| Lucknow   | 9000           | 21       | 5209.52        | 428.57          |

**Q9. Sales growth rate: Calculate the percentage growth (or decline) in sales over different time periods (monthly).**

**(Month-Over-Month Growth Rate Calculated)**

| city_name | month | year | current_month_sale | last_month_sale | mom_growth_rate |
|-----------|-------|------|--------------------|-----------------|-----------------|
| Ahmedabad | 2     | 2023 | 4100               | 3750            | 9.33            |
| Ahmedabad | 3     | 2023 | 3050               | 4100            | -25.61          |
| Ahmedabad | 4     | 2023 | 4040               | 3050            | 32.46           |
| Ahmedabad | 5     | 2023 | 2550               | 4040            | -36.88          |
| Ahmedabad | 6     | 2023 | 2900               | 2550            | 13.73           |
| Ahmedabad | 7     | 2023 | 2800               | 2900            | -3.45           |
| Ahmedabad | 8     | 2023 | 4300               | 2800            | 53.57           |
| Ahmedabad | 9     | 2023 | 8250               | 4300            | 91.86           |
| Ahmedabad | 10    | 2023 | 10950              | 8250            | 32.73           |
| Ahmedabad | 11    | 2023 | 21250              | 10950           | 94.06           |
| Ahmedabad | 12    | 2023 | 11360              | 21250           | -46.54          |
| Ahmedabad | 1     | 2024 | 12090              | 11360           | 6.43            |
| Ahmedabad | 2     | 2024 | 10900              | 12090           | -9.84           |
| Ahmedabad | 3     | 2024 | 14000              | 10900           | 28.44           |
| Ahmedabad | 4     | 2024 | 3950               | 14000           | -71.79          |
| Ahmedabad | 5     | 2024 | 5250               | 3950            | 32.91           |
| Ahmedabad | 6     | 2024 | 3300               | 5250            | -37.14          |
| Ahmedabad | 7     | 2024 | 2700               | 3300            | -18.18          |
| Ahmedabad | 8     | 2024 | 3550               | 2700            | 31.48           |
| Ahmedabad | 9     | 2024 | 2650               | 3550            | -25.35          |
| Bangalore | 2     | 2023 | 24750              | 36890           | -32.91          |
| Bangalore | 3     | 2023 | 26120              | 24750           | 5.54            |
| Bangalore | 4     | 2023 | 23520              | 26120           | -9.95           |
| Bangalore | 5     | 2023 | 37790              | 23520           | 60.67           |
| Bangalore | 6     | 2023 | 37790              | 37790           | 0               |

**Q10. Identify the top three cities with the highest sales and return their city name, total sales, total rent, total customers, and estimated coffee consumers**

| city_name | total_sales | total_rent | total_customers | estimated_coffee_consumer_in_millions | avg_sale_per_customer | avg_rent_per_customer |
|-----------|-------------|------------|-----------------|---------------------------------------|-----------------------|-----------------------|
| Pune      | 1258290     | 15300      | 52              | 1.875                                 | 24197.88              | 294.23                |
| Chennai   | 944120      | 17100      | 42              | 2.775                                 | 22479.05              | 407.14                |
| Bangalore | 860110      | 29700      | 39              | 3.075                                 | 22054.1               | 761.54                |
| Jaipur    | 803450      | 10800      | 69              | 1.000                                 | 11644.2               | 156.52                |
| Delhi     | 750420      | 22500      | 68              | 7.750                                 | 11035.59              | 330.88                |
| Mumbai    | 235000      | 31500      | 27              | 5.100                                 | 8703.7                | 1166.67               |
| Kanpur    | 213550      | 8100       | 35              | 0.775                                 | 6101.43               | 231.43                |
| Surat     | 176540      | 13500      | 27              | 1.800                                 | 6538.52               | 500                   |
| Kolkata   | 171460      | 16200      | 28              | 3.725                                 | 6123.57               | 578.57                |
| Nagpur    | 140050      | 7200       | 24              | 0.725                                 | 5835.42               | 300                   |
| Indore    | 138590      | 6300       | 21              | 0.825                                 | 6599.52               | 300                   |
| Ahmedabad | 137690      | 14400      | 23              | 2.075                                 | 5986.52               | 626.09                |
| Hyderabad | 131520      | 22500      | 21              | 2.500                                 | 6262.86               | 1071.43               |
| Lucknow   | 109400      | 9000       | 21              | 0.950                                 | 5209.52               | 428.57                |