CREATE TABLE CoffeeSales (

SaleDate DATE,

SaleDateTime DATETIME,

PaymentType VARCHAR(10),

CardNumber VARCHAR(30),

Amount DECIMAL(10, 2),

CoffeeName VARCHAR(50)

);

INSERT INTO `CoffeeSales` (`SaleDate`, `SaleDateTime`, `PaymentType`, `CardNumber`, `Amount`, `CoffeeName`)

VALUES

('2024-03-01', '2024-03-01 10:15:50.520', 'card', 'ANON-01', 38.7, 'Latte'),

('2024-03-01', '2024-03-01 12:19:22.539', 'card', 'ANON-02', 38.7, 'Hot Chocolate'),

('2024-03-01', '2024-03-01 13:46:33.006', 'card', 'ANON-03', 28.9, 'Americano'),

('2024-03-01', '2024-03-01 13:48:14.626', 'card', 'ANON-04', 38.7, 'Latte'),

('2024-03-01', '2024-03-01 15:39:47.726', 'card', 'ANON-05', 33.8, 'Americano with Milk'),

('2024-03-01', '2024-03-01 16:19:02.756', 'card', 'ANON-06', 38.7, 'Hot Chocolate'),

('2024-03-01', '2024-03-01 18:39:03.580', 'card', 'ANON-07', 33.8, 'Americano with Milk'),

('2024-03-01', '2024-03-01 19:22:01.762', 'card', 'ANON-08', 38.7, 'Cocoa'),

('2024-03-01', '2024-03-01 12:20:18.089', 'card', 'ANON-09', 38.7, 'Hot Chocolate'),

('2024-03-01', '2024-03-01 19:23:15.887', 'card', 'ANON-10', 33.8, 'Americano with Milk'),

('2024-03-01', '2024-03-01 19:29:17.391', 'card', 'ANON-11', 33.8, 'Americano with Milk'),

('2024-03-02', '2024-03-02 10:22:06.957', 'card', 'ANON-12', 28.9, 'Americano'),

('2024-03-02', '2024-03-02 10:41:41.249', 'card', 'ANON-13', 33.8, 'Americano with Milk'),

('2024-03-02', '2024-03-02 11:59:45.484', 'card', 'ANON-14', 33.8, 'Americano with Milk'),

('2024-03-02', '2024-03-02 14:38:35.535', 'card', 'ANON-15', 28.9, 'Americano'),

('2024-03-02', '2024-03-02 16:37:24.475', 'card', 'ANON-16', 33.8, 'Americano with Milk'),

('2024-03-02', '2024-03-02 17:34:54.969', 'card', 'ANON-17', 28.9, 'Americano'),

('2024-03-03', '2024-03-03 10:10:43.981', 'cash', 'ANON-18', 38.7, 'Latte'),

('2024-03-03', '2024-03-03 10:27:18.561', 'card', 'ANON-19', 38.7, 'Latte'),

('2024-03-03', '2024-03-03 11:33:56.118', 'card', 'ANON-20', 28.9, 'Cortado'),

('2024-03-03', '2024-03-03 12:26:56.098', 'card', 'ANON-21', 28.9, 'Americano'),

('2024-03-03', '2024-03-03 13:09:36.321', 'card', 'ANON-22', 38.7, 'Hot Chocolate'),

('2024-03-03', '2024-03-03 17:08:45.895', 'card', 'ANON-24', 28.9, 'Cortado'),

('2024-03-03', '2024-03-03 18:03:23.369', 'card', 'ANON-25', 33.8, 'Americano with Milk'),

('2024-03-03', '2024-03-03 18:04:27.946', 'card', 'ANON-26', 33.8, 'Americano with Milk'),

('2024-03-03', '2024-03-03 18:08:04.959', 'card', 'ANON-27', 38.7, 'Hot Chocolate'),

('2024-03-04', '2024-03-04 10:03:51.994', 'card', 'ANON-28', 38.7, 'Latte'),

('2024-03-04', '2024-03-04 10:54:50.958', 'card', 'ANON-29', 38.7, 'Latte'),

('2024-03-04', '2024-03-04 11:05:16.184', 'card', 'ANON-30', 33.8, 'Americano with Milk'),

('2024-03-04', '2024-03-04 14:04:37.734', 'card', 'ANON-31', 24.0, 'Espresso'),

('2024-03-05', '2024-03-05 09:59:52.651', 'card', 'ANON-32', 38.7, 'Latte'),

('2024-03-05', '2024-03-05 14:34:55.963', 'card', 'ANON-33', 38.7, 'Latte'),

('2024-03-05', '2024-03-05 17:34:06.043', 'card', 'ANON-34', 38.7, 'Latte'),

('2024-03-05', '2024-03-05 17:35:25.021', 'card', 'ANON-35', 38.7, 'Hot Chocolate'),

('2024-03-05', '2024-03-05 17:36:28.571', 'card', 'ANON-36', 38.7, 'Cocoa'),

('2024-03-05', '2024-03-05 17:37:13.659', 'card', 'ANON-37', 38.7, 'Hot Chocolate'),

('2024-03-05', '2024-03-05 17:38:09.354', 'card', 'ANON-38', 38.7, 'Hot Chocolate'),

('2024-03-05', '2024-03-05 17:56:15.776', 'card', 'ANON-39', 28.9, 'Cortado'),

('2024-03-05', '2024-03-05 18:01:31.242', 'card', 'ANON-40', 38.7, 'Hot Chocolate'),

('2024-03-06', '2024-03-06 12:30:27.089', 'cash', 'ANON-41', 35.0, 'Americano with Milk'),

('2024-03-06', '2024-03-06 13:24:07.667', 'card', 'ANON-42', 28.9, 'Americano'),

('2024-03-06', '2024-03-06 13:25:14.351', 'card', 'ANON-43', 28.9, 'Cortado'),

('2024-03-06', '2024-03-06 14:52:01.761', 'card', 'ANON-44', 38.7, 'Cappuccino'),

('2024-03-06', '2024-03-06 14:53:18.344', 'card', 'ANON-45', 38.7, 'Cappuccino'),

('2024-03-07', '2024-03-07 10:08:58.945', 'cash', 'ANON-46', 40.0, 'Latte'),

('2024-03-07', '2024-03-07 10:18:40.543', 'card', 'ANON-47', 38.7, 'Hot Chocolate'),

('2024-03-07', '2024-03-07 11:03:58.976', 'card', 'ANON-48', 38.7, 'Latte'),

('2024-03-07', '2024-03-07 15:40:22.606', 'card', 'ANON-49', 28.9, 'Americano'),

('2024-03-08', '2024-03-06 12:20:23.085', 'cash', 'ANON-50', 35.0,'Americano with Milk');

**1.Total Revenue**

SELECT SUM(Amount) AS TotalRevenue

FROM CoffeeSales;

| TotalRevenue |
| --- |
| 6769.79999999999 |

**2.Total Number of Transactions**

SELECT COUNT(\*) AS TotalTransactions

FROM CoffeeSales;

| TotalTransactions |
| --- |
| 193 |

**3. Revenue by Payment Type**

SELECT PaymentType, SUM(Amount) AS Revenue

FROM CoffeeSales

GROUP BY PaymentType

ORDER BY Revenue DESC;

| PaymentType | Revenue |
| --- | --- |
| card | 6279.99999999999 |
| cash | 489.8 |

4. **Most Popular Coffee (Highest Sales Count)**

SELECT CoffeeName, COUNT(\*) AS TotalOrders

FROM CoffeeSales

GROUP BY CoffeeName

ORDER BY TotalOrders DESC

LIMIT 1;

| CoffeeName | TotalOrders |
| --- | --- |
| Americano with Milk | 45 |

**5. Daily Revenue**

SELECT SaleDate, SUM(Amount) AS DailyRevenue

FROM CoffeeSales

GROUP BY SaleDate

ORDER BY SaleDate;

| SaleDate | DailyRevenue |
| --- | --- |
| 2024-03-01 | 1585.2000000000003 |
| 2024-03-02 | 752.3999999999997 |
| 2024-03-03 | 1236.4000000000003 |
| 2024-03-04 | 540.8 |
| 2024-03-05 | 1354.0000000000007 |
| 2024-03-06 | 680.8 |
| 2024-03-07 | 585.1999999999999 |
| 2024-03-08 | 35 |

### 6. ****Revenue by Coffee Type****

SELECT CoffeeName, SUM(Amount) AS Revenue

FROM CoffeeSales

GROUP BY CoffeeName

ORDER BY Revenue DESC;

| CoffeeName | Revenue |
| --- | --- |
| Latte | 1708.0000000000011 |
| Hot Chocolate | 1548.0000000000011 |
| Americano with Milk | 1526.999999999999 |
| Americano | 809.1999999999996 |
| Cortado | 462.39999999999986 |
| Cocoa | 309.59999999999997 |
| Cappuccino | 309.59999999999997 |
| Espresso | 96 |

### 7. ****Transactions by Payment Type****

SELECT PaymentType, COUNT(\*) AS Transactions

FROM CoffeeSales

GROUP BY PaymentType

ORDER BY Transactions DESC;

| PaymentType | Transactions |
| --- | --- |
| card | 180 |
| cash | 13 |

### 8. ****Average Spend per Transaction****

SELECT AVG(Amount) AS AverageSpend

FROM CoffeeSales;

| AverageSpend |
| --- |
| 35.07668393782378 |

### 9. ****Top 5 Customers (By Spend Amount)****

SELECT CardNumber, SUM(Amount) AS TotalSpend

FROM CoffeeSales

GROUP BY CardNumber

ORDER BY TotalSpend DESC

LIMIT 5;

| CardNumber | TotalSpend |
| --- | --- |
| ANON-46 | 160 |
| ANON-48 | 154.8 |
| ANON-47 | 154.8 |
| ANON-45 | 154.8 |
| ANON-44 | 154.8 |

**10. Peak Hour of Sales (Most Active Time)**

SELECT STRFTIME('%H', SaleDateTime) AS Hour, COUNT(\*) AS Transactions

FROM CoffeeSales

GROUP BY Hour

ORDER BY Transactions DESC

LIMIT 1;

| Hour | Transactions |
| --- | --- |
| 10 | 36 |

**11. Coffee with the Highest Revenue**

SELECT CoffeeName, SUM(Amount) AS Revenue

FROM CoffeeSales

GROUP BY CoffeeName

ORDER BY Revenue DESC

LIMIT 1;

| CoffeeName | Revenue |
| --- | --- |
| Latte | 1708.0000000000011 |

**12. Day with the Highest Revenue**

SELECT SaleDate, SUM(Amount) AS Revenue

FROM CoffeeSales

GROUP BY SaleDate

ORDER BY Revenue DESC

LIMIT 1;

| SaleDate | Revenue |
| --- | --- |
| 2024-03-01 | 1585.2000000000003 |

**13. Percentage of Revenue by Payment Type**

SELECT PaymentType,

SUM(Amount) AS Revenue,

ROUND(SUM(Amount) \* 100.0 / (SELECT SUM(Amount) FROM CoffeeSales), 2) AS Percentage

FROM CoffeeSales

GROUP BY PaymentType;

| PaymentType | Revenue | Percentage |
| --- | --- | --- |
| card | 6279.99999999999 | 92.76 |
| cash | 489.8 | 7.24 |