

1. Query :

```
SELECT Transaction_Id, Date_, EXTRACT(MONTH FROM Date_) AS  
order_month  
FROM Sales;
```

Transaction_Id	Date_	order_month
10001	2024-01-01	1
10002	2024-01-02	1
10003	2024-01-03	1
10004	2024-01-04	1
10005	2024-01-05	1
10006	2024-01-06	1
10007	2024-01-07	1
10008	2024-01-08	1
10009	2024-01-09	1
10010	2024-01-10	1
10011	2024-01-11	1
10012	2024-01-12	1
10013	2024-01-13	1
10014	2024-01-14	1
10015	2024-01-15	1
10016	2024-01-16	1
10017	2024-01-17	1
10018	2024-01-18	1
10019	2024-01-19	1
10020	2024-01-20	1
10021	2024-01-21	1
10022	2024-01-22	1
10023	2024-01-23	1
10024	2024-01-24	1
10025	2024-01-25	1
10026	2024-01-26	1
10027	2024-01-27	1
10028	2024-01-28	1
10029	2024-01-29	1
10030	2024-01-30	1
10031	2024-01-31	1
10032	2024-02-01	2
10033	2024-02-02	2
10034	2024-02-03	2
10035	2024-02-04	2
10036	2024-02-05	2
10037	2024-02-06	2

2. Query:

```
SELECT
    YEAR(Date_) AS order_year,
    MONTH(Date_) AS order_month,
    COUNT(*) AS total_orders
FROM
    Sales
GROUP BY
    YEAR(Date_),
    MONTH(Date_)
ORDER BY
    order_year, order_month;
```

order_year	order_month	total_orders
2024	1	31
2024	2	29
2024	3	31
2024	4	30
2024	5	31
2024	6	30
2024	7	31
2024	8	27

3. Query:

```
SELECT
    YEAR(Date_) AS order_year,
    MONTH(Date_) AS order_month,
    SUM(Revenue) AS total_Revenue
FROM
    Sales
GROUP BY
    YEAR(Date_),
    MONTH(Date_)
ORDER BY
    order_year, order_month;
```

order_year	order_month	total_Revenue
2024	1	14548.319875717163
2024	2	10803.369953155518
2024	3	12849.239894866943
2024	4	12451.68991470337
2024	5	8455.489954948425
2024	6	7384.549964904785
2024	7	6797.079990386963
2024	8	7278.109984397888

4. Query:

```
SELECT
    YEAR(Date_) AS order_year,
    MONTH(Date_) AS order_month,
    COUNT(DISTINCT Transaction_id) AS order_volume
FROM
    Sales
GROUP BY
    YEAR(Date_),
    MONTH(Date_)
ORDER BY
    order_year, order_month;
```

order_year	order_month	order_volume
2024	1	31
2024	2	29
2024	3	31
2024	4	30
2024	5	31
2024	6	30
2024	7	31
2024	8	27

5. Query:

```
SELECT
    Product_Category,
    COUNT(DISTINCT Transaction_ID) AS order_volume, -- Number of
unique orders per category
    SUM(Revenue) AS total_revenue -- Total revenue per category
FROM
    Sales
GROUP BY
    Product_Category
ORDER BY
    total_revenue DESC; -- sort in desc by total_revenue
```

Product_Category	order_volume	total_revenue
Electronics	40	34982.40969085693
Home Appliances	40	18646.15990447998
Sports	40	14326.519886016846
Clothing	40	8128.9300537109375
Beauty Products	40	2621.8999977111816
Books	40	1861.9300003051758

6. Query:

SELECT

Transaction_Id,Product_Category,Product_Name,Revenue

FROM

Sales

WHERE

Date_ BETWEEN '2024-01-01' AND '2024-01-26' ;

Transaction_Id	Product_Category	Product_Name	Revenue
10001	Electronics	iPhone 14 Pro	1999.98
10002	Home Appliances	Dyson V11 Vacuum	499.99
10003	Clothing	Levi's 501 Jeans	209.97
10004	Books	The Da Vinci Code	63.96
10005	Beauty Products	Neutrogena Skincare Set	89.99
10006	Sports	Wilson Evolution Basketball	149.95
10007	Electronics	MacBook Pro 16-inch	2499.99
10008	Home Appliances	Blueair Classic 480i	1199.98
10009	Clothing	Nike Air Force 1	539.94
10010	Books	Dune by Frank Herbert	51.98
10011	Beauty Products	Chanel No. 5 Perfume	129.99
10012	Sports	Babolat Pure Drive Tennis Racket	599.97
10013	Electronics	Samsung Galaxy Tab S8	1499.98
10014	Home Appliances	Keurig K-Elite Coffee Maker	189.99
10015	Clothing	North Face Down Jacket	499.98
10016	Books	Salt, Fat, Acid, Heat by Samin Nosrat	107.97
10017	Beauty Products	Dyson Supersonic Hair Dryer	399.99
10018	Sports	Manduka PRO Yoga Mat	479.96
10019	Electronics	Garmin Forerunner 945	999.98
10020	Home Appliances	Ninja Professional Blender	99.99
10021	Clothing	Zara Summer Dress	179.97
10022	Books	Gone Girl by Gillian Flynn	45.98
10023	Beauty Products	Olay Regenerist Face Cream	49.99
10024	Sports	Adidas FIFA World Cup Football	89.97
10025	Electronics	Bose QuietComfort 35 Headphones	299.99
10026	Home Appliances	Panasonic NN-SN966S Microwave	179.99