DATA ANALYST TASK 6

Creation of Database and Table

```sql
-- Create the database
CREATE DATABASE IF NOT EXISTS sales_analysis;
USE sales_analysis;


-- Drop table if it already exists (optional)
DROP TABLE IF EXISTS online_sales;


-- Create the table
CREATE TABLE online_sales (
    order_id INT PRIMARY KEY,
    order_date DATE,
    amount DECIMAL(10, 2),
    product_id INT
);
```

Monthly Revenue & Order Volume

Sql Command :

```sql
SELECT
    EXTRACT(YEAR FROM order_date) AS year,
    EXTRACT(MONTH FROM order_date) AS month,
    SUM(amount) AS monthly_revenue,
    COUNT(DISTINCT order_id) AS order_volume
FROM
    online_sales
GROUP BY
    year, month
ORDER BY
    year ASC, month ASC;
```

Result:

year	month	monthly_revenue	order_volume
2020	1	85591.46	164
2020	2	74141.68	142
2020	3	94846.63	169
2020	4	76568.43	154
2020	5	62164.09	131
2020	6	86372.39	155
2020	7	86876.46	172
2020	8	83605.07	153
2020	9	66786.99	135
2020	10	87917.62	177
2020	11	85367.98	158
2020	12	89463.62	155

Top 3 Months by Revenue

Sql Command :

```sql
SELECT
    EXTRACT(YEAR FROM order_date) AS year,
    EXTRACT(MONTH FROM order_date) AS month,
    SUM(amount) AS monthly_revenue
FROM
    online_sales
GROUP BY
    year, month
ORDER BY
    monthly_revenue DESC
LIMIT 3;
```

Result :

	year	month	monthly_revenue
▶	2020	3	94846.63
	2023	10	91122.86
	2020	12	89463.62