

# TASK 6

## ***SOL QUERIES:***

-- 1. Use database

CREATE DATABASE IF NOT EXISTS online\_sales;

USE online\_sales;

-- 2. Create table for imported data

CREATE TABLE orders (

    order\_id  VARCHAR(20),

    order\_date DATE,

    quantity  INT,

    unit\_price DECIMAL(10,2)

);

-- 3. Load data from CSV (using variables to skip extra columns)

LOAD DATA INFILE 'C:/ProgramData/MySQL/MySQL Server 8.0/Uploads/ecommerce\_dataset\_10000.csv'

INTO TABLE orders

FIELDS TERMINATED BY ','

ENCLOSED BY '"'

LINES TERMINATED BY '\n'

IGNORE 1 ROWS

(

    @customer\_id,

    @first\_name,

    @last\_name,

    @gender,

    @age\_group,

    @signup\_date,

    @country,

    @product\_id,

    @product\_name,

    @category,

    @quantity,

    @unit\_price,

    @order\_id,

    @order\_date,

```

@order_status,
@payment_method,
@rating,
@review_text,
@review_id,
@review_date
)
SET
order_id = @order_id,
order_date = STR_TO_DATE(@order_date, '%Y-%m-%d'),
quantity = @quantity,
unit_price = @unit_price;

-- 4. Monthly Sales Trend Analysis
SELECT
    YEAR(order_date) AS year,
    MONTH(order_date) AS month,
    SUM(quantity * unit_price) AS total_revenue,
    COUNT(DISTINCT order_id) AS order_volume
FROM orders
GROUP BY year, month
ORDER BY year, month;

```

## **OUTPUTS- SCREENSHOTS**

### Creating the Database

```

mysql> CREATE DATABASE online_sales;
Query OK, 1 row affected (0.09 sec)

mysql> USE online_sales;
Database changed

```

### Creating Table

```

mysql> CREATE TABLE orders (
->     order_id    VARCHAR(20),
->     order_date  DATE,
->     quantity    INT,
->     unit_price  DECIMAL(10,2)
-> );
Query OK, 0 rows affected (0.04 sec)

```

## Loading the dataset

```
mysql> LOAD DATA INFILE 'C:/ProgramData/MySQL/MySQL Server 8.0/Uploads/ecommerce_dataset_10000.csv'
-> INTO TABLE orders
-> FIELDS TERMINATED BY ','
-> ENCLOSED BY '"'
-> LINES TERMINATED BY '\n'
-> IGNORE 1 ROWS
-> (
->   @customer_id,
->   @first_name,
->   @last_name,
->   @gender,
->   @age_group,
->   @signup_date,
->   @country,
->   @product_id,
->   @product_name,
->   @category,
->   @quantity,
->   @unit_price,
->   @order_id,
->   @order_date,
->   @order_status,
->   @payment_method,
->   @rating,
->   @review_text,
->   @review_id,
->   @review_date
-> )
-> SET
->   order_id = @order_id,
->   order_date = STR_TO_DATE(@order_date, '%Y-%m-%d'),
->   quantity = @quantity,
->   unit_price = @unit_price;
Query OK, 10000 rows affected (0.36 sec)
Records: 10000 Deleted: 0 Skipped: 0 Warnings: 0
```

## Displaying the content

```
mysql> SELECT COUNT(*) FROM orders;
+-----+
| COUNT(*) |
+-----+
|      10000 |
+-----+
1 row in set (0.01 sec)

mysql> SELECT * FROM orders LIMIT 5;
+-----+-----+-----+-----+
| order_id | order_date | quantity | unit_price |
+-----+-----+-----+-----+
| ORD10000 | 2023-07-13 | 3 | 229.00 |
| ORD10001 | 2024-08-12 | 4 | 59.00 |
| ORD10002 | 2024-08-04 | 2 | 59.00 |
| ORD10003 | 2025-05-23 | 4 | 399.00 |
| ORD10004 | 2023-07-02 | 1 | 110.00 |
+-----+-----+-----+-----+
5 rows in set (0.00 sec)
```

## Aggregations

```
mysql> SELECT
->     YEAR(order_date) AS year,
->     MONTH(order_date) AS month,
->     SUM(quantity * unit_price) AS total_revenue,
->     COUNT(DISTINCT order_id) AS order_volume
-> FROM orders
-> GROUP BY year, month
-> ORDER BY year, month;
```

year	month	total_revenue	order_volume
2022	8	59094.00	61
2022	9	161540.00	246
2022	10	226862.00	293
2022	11	217207.00	293
2022	12	182328.00	274
2023	1	194910.00	251
2023	2	160193.00	251
2023	3	226185.00	296
2023	4	229076.00	286
2023	5	236284.00	315
2023	6	197018.00	277
2023	7	207817.00	288
2023	8	190483.00	275
2023	9	231165.00	292
2023	10	197801.00	281
2023	11	230382.00	279
2023	12	188711.00	272
2024	1	193275.00	268
2024	2	180858.00	235
2024	3	201151.00	300
2024	4	212243.00	259
2024	5	198556.00	284
2024	6	240348.00	284
2024	7	207456.00	254
2024	8	247751.00	293
2024	9	219328.00	294
2024	10	208396.00	300
2024	11	211909.00	275
2024	12	184730.00	269
2025	1	207064.00	287
2025	2	217049.00	277
2025	3	196312.00	270
2025	4	217914.00	279
2025	5	197934.00	281
2025	6	208290.00	263
2025	7	215346.00	291
2025	8	147797.00	207

37 rows in set (0.08 sec)