SQL Task 3 - Data Analysis Report

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Course: Data Analytics / SQL Essentials

Institution: _____

Submitted as part of Task 3 - SQL for Data Analysis

SQL Queries Used

1. Create Database
```
CREATE DATABASE IF NOT EXISTS ECCOMERCE;
USE ECCOMERCE;
```

2. Enable CSV Import
```
SET GLOBAL local_infile = 1;
```

3. Create Table
```
CREATE TABLE IF NOT EXISTS ecommerce (...);
```

4. Load Data
```
LOAD DATA LOCAL INFILE 'D:/desktop/ELEVATE LABS/Task 3/ecommerce.csv' ...;
```

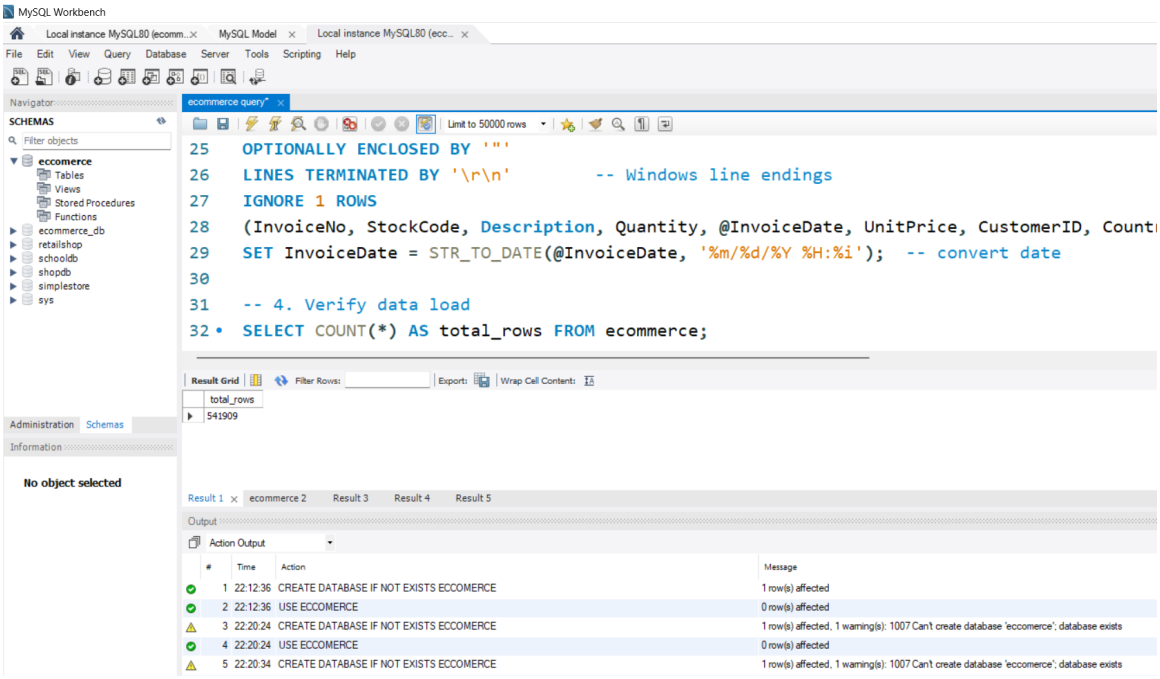
5. Verify Data
```
SELECT COUNT(*) AS total_rows FROM ecommerce;
SELECT * FROM ecommerce LIMIT 10;
```

6. Analysis Queries
- Total Revenue Query
- Monthly Revenue Query
- Top Countries Query

7. Indexes for Optimization
```
CREATE INDEX idx_date ON ecommerce(InvoiceDate);
CREATE INDEX idx_country ON ecommerce(Country);
```

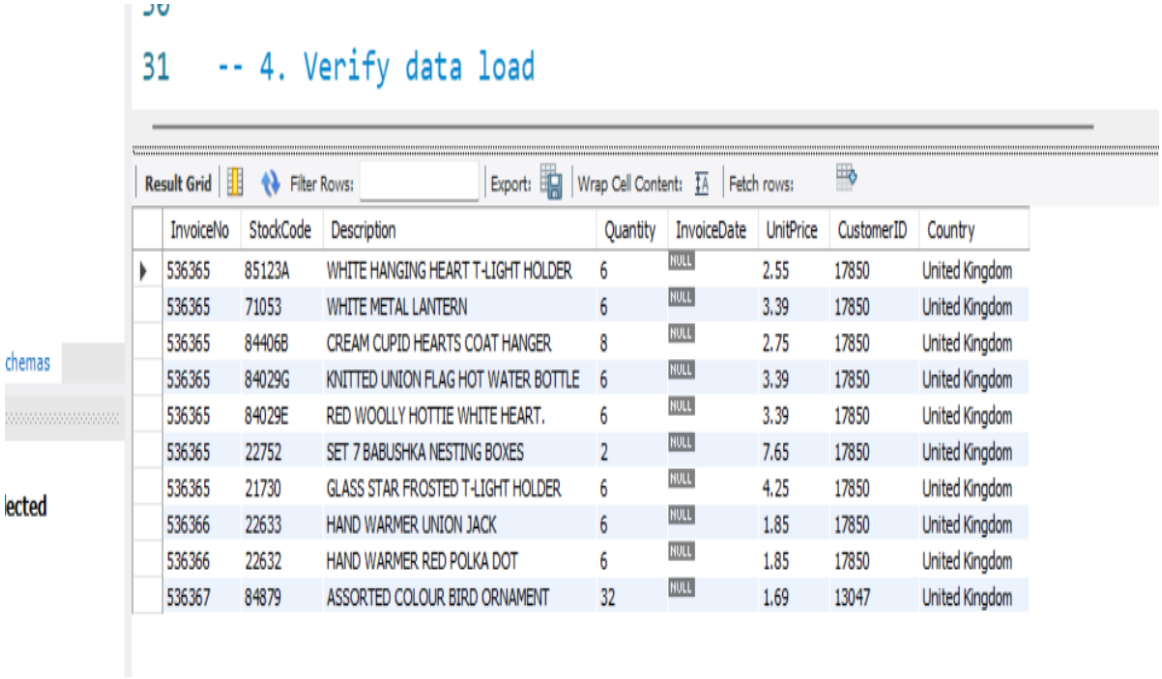
Result Screenshots

Screenshot 1: Database Creation, Data Load, and Row Count Output



Screenshot 1: Database Creation, Data Load, and Row Count Output

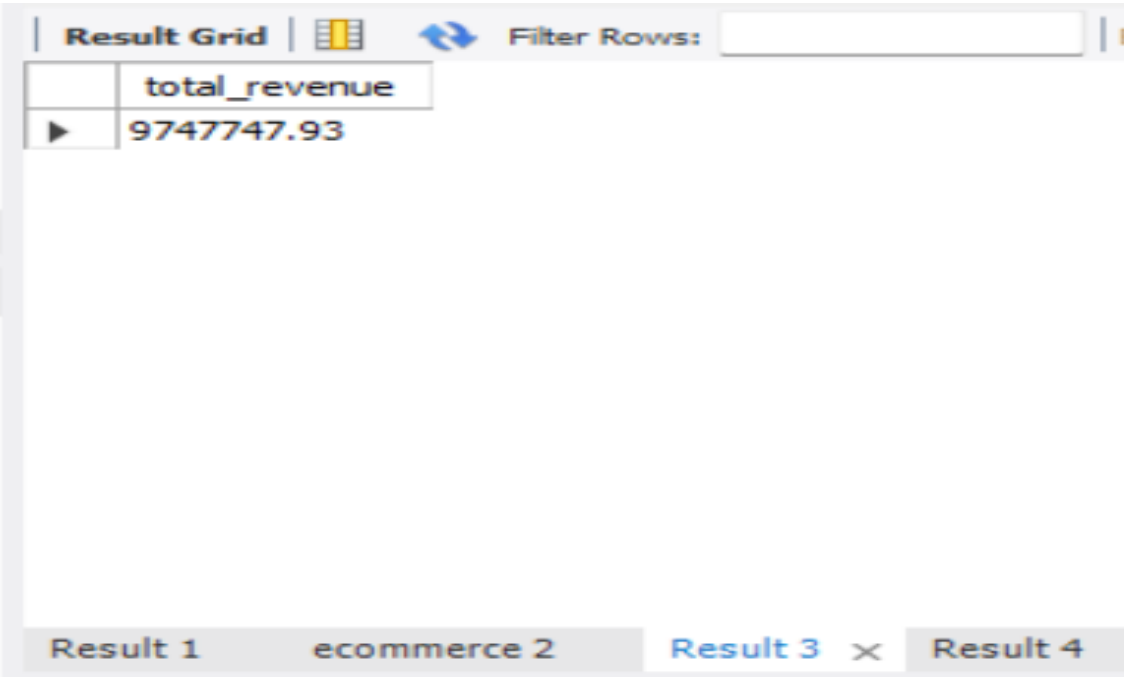
Screenshot 2: Sample Data (SELECT * LIMIT 10)



InvoiceNo	StockCode	Description	Quantity	InvoiceDate	UnitPrice	CustomerID	Country
536365	85123A	WHITE HANGING HEART T-LIGHT HOLDER	6	NULL	2.55	17850	United Kingdom
536365	71053	WHITE METAL LANTERN	6	NULL	3.39	17850	United Kingdom
536365	84406B	CREAM CUPID HEARTS COAT HANGER	8	NULL	2.75	17850	United Kingdom
536365	84029G	KNITTED UNION FLAG HOT WATER BOTTLE	6	NULL	3.39	17850	United Kingdom
536365	84029E	RED WOOLLY HOTTIE WHITE HEART.	6	NULL	3.39	17850	United Kingdom
536365	22752	SET 7 BABUSHKA NESTING BOXES	2	NULL	7.65	17850	United Kingdom
536365	21730	GLASS STAR FROSTED T-LIGHT HOLDER	6	NULL	4.25	17850	United Kingdom
536366	22633	HAND WARMER UNION JACK	6	NULL	1.85	17850	United Kingdom
536366	22632	HAND WARMER RED POLKA DOT	6	NULL	1.85	17850	United Kingdom
536367	84879	ASSORTED COLOUR BIRD ORNAMENT	32	NULL	1.69	13047	United Kingdom

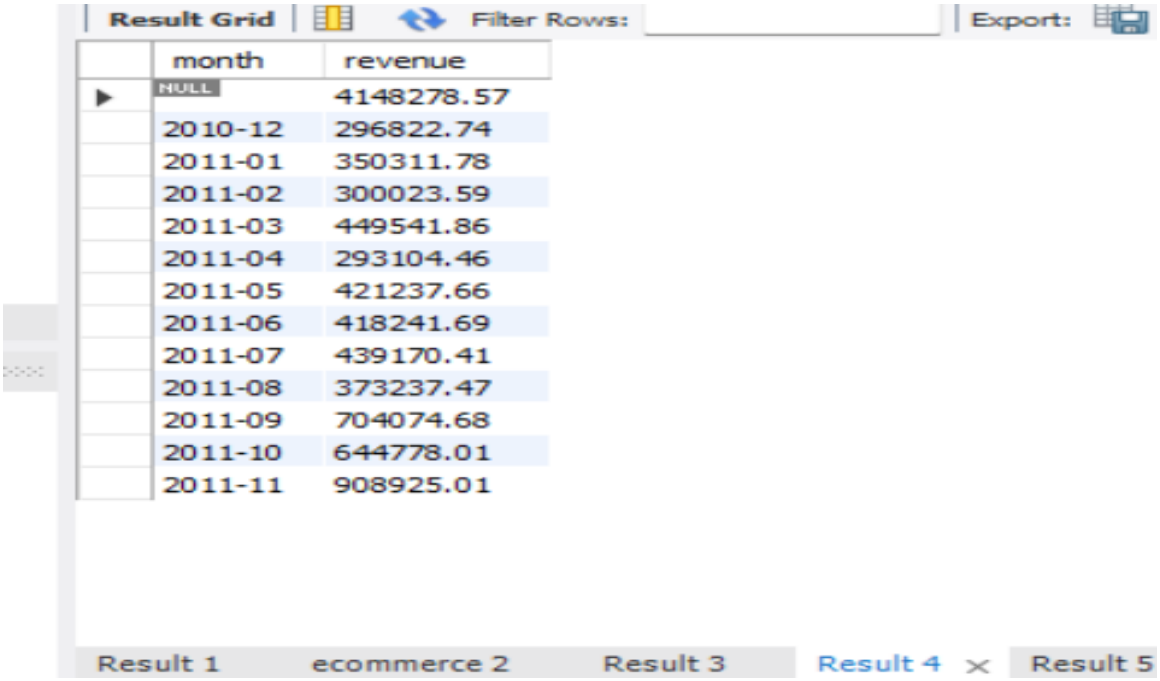
Screenshot 2: Sample Data (SELECT * LIMIT 10)

Screenshot 3: Total Revenue Calculation



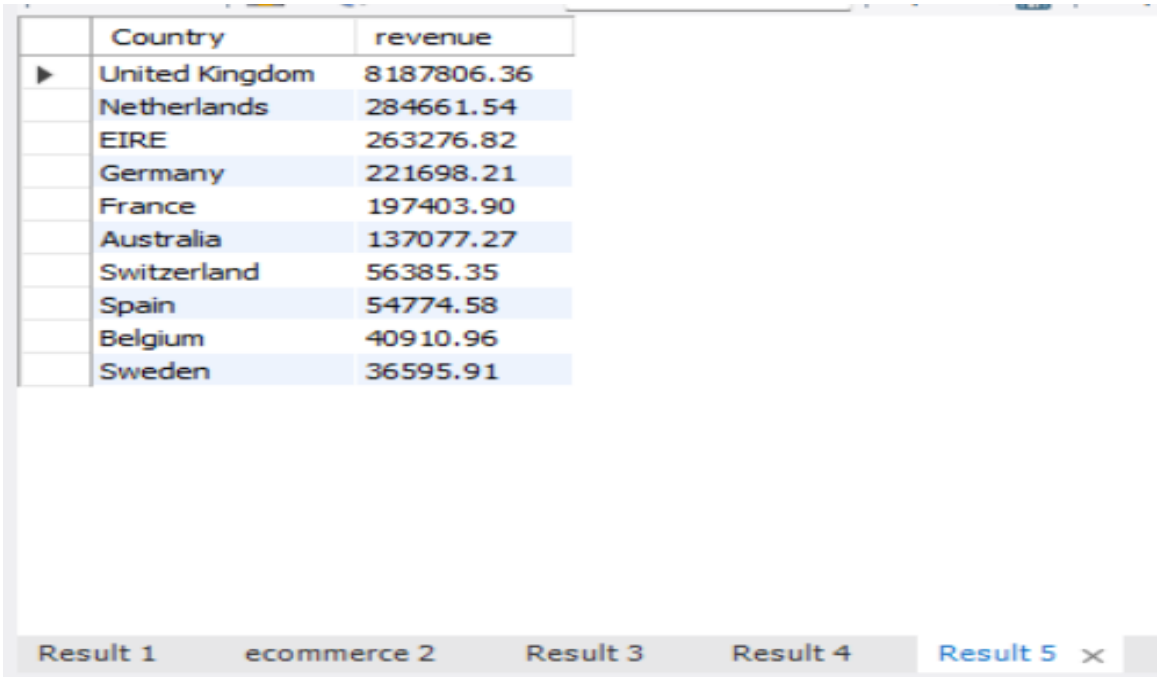
Screenshot 3: Total Revenue Calculation

Screenshot 4: Monthly Revenue Summary



Screenshot 4: Monthly Revenue Summary

Screenshot 5: Top Countries by Revenue



Screenshot 5: Top Countries by Revenue