

# Portfolio Management & Analysis Using SQL

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## Project Documentation

### 1. Project Overview

This project analyzes personal investment data using SQL. The dataset includes details about brokers, assets, and transactions. The goal is to derive insights such as total investment, top assets, and monthly trends using SQL queries.

### 2. Tools & Technologies Used

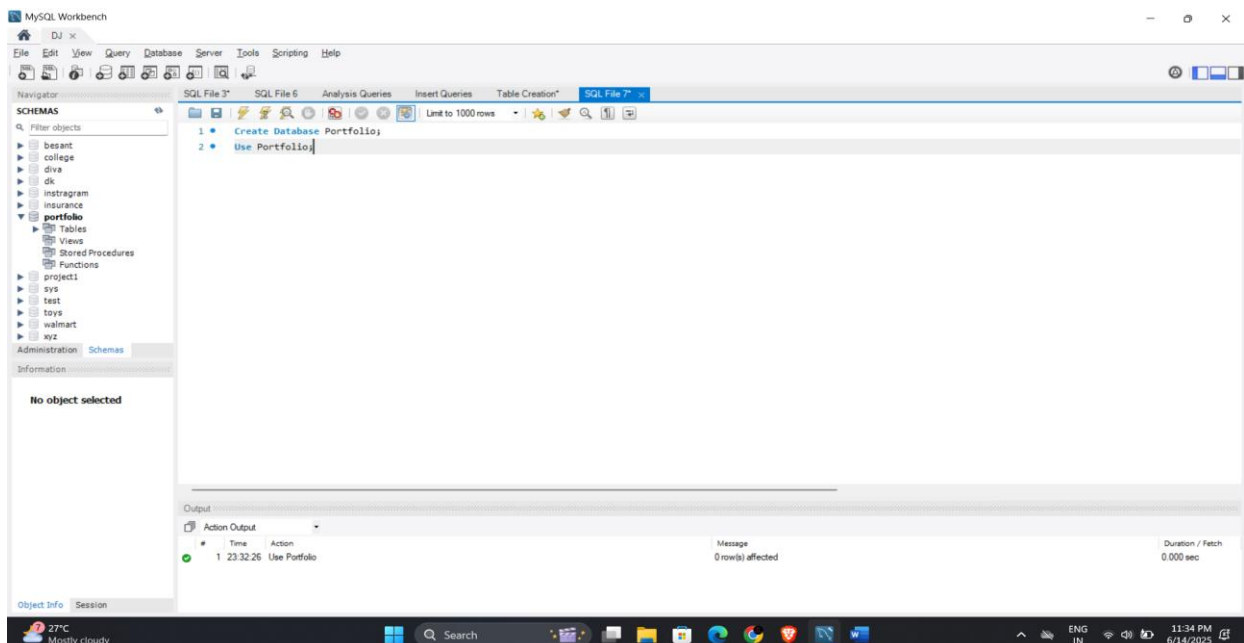
- MySQL
- SQL Workbench

### 3. Dataset Structure

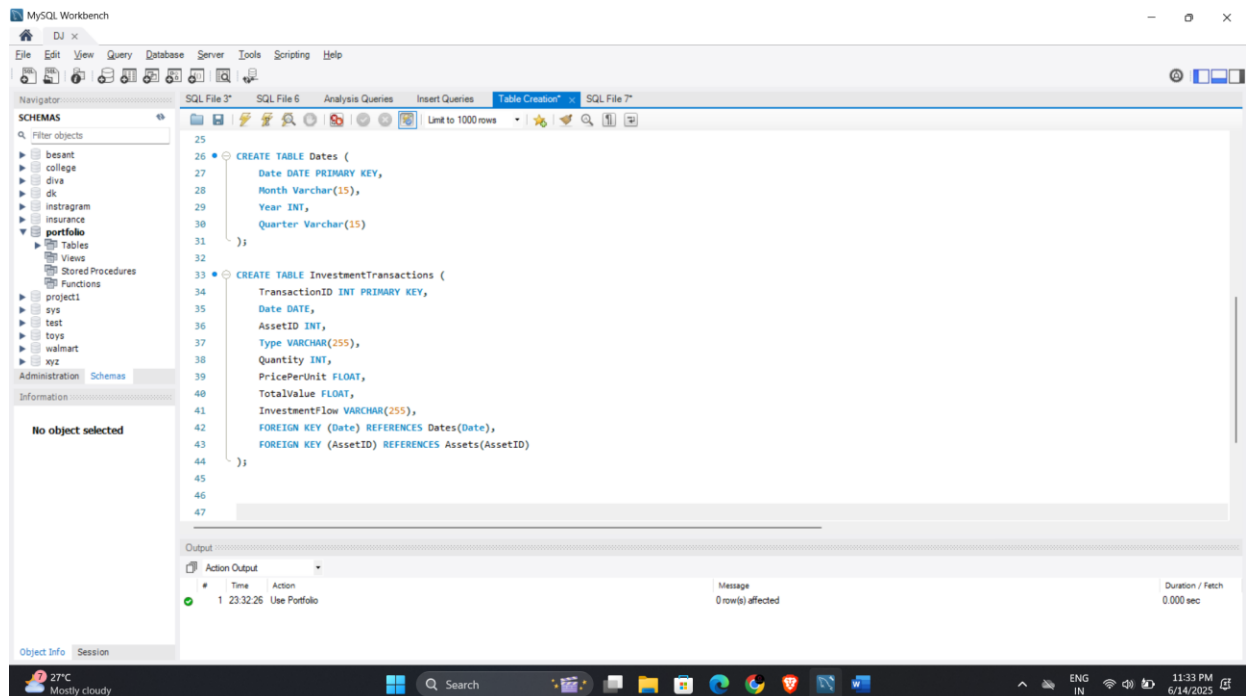
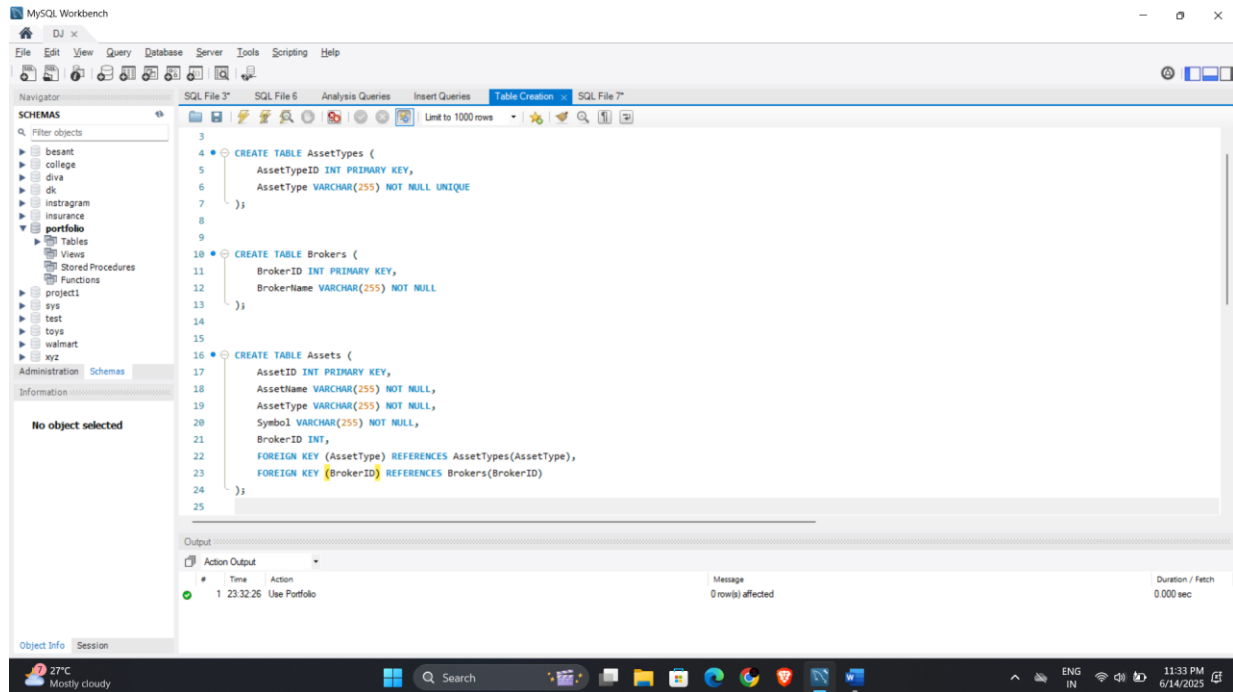
Table Name	Description
Brokers	Contains BrokerID and BrokerName.
Assets	Contains AssetID, AssetName, and AssetType.
InvestmentTransactions	Contains TransactionID, AssetID, BrokerID, Date, Quantity, and TotalValue.
AssetType	AssetType, AssetId
Date	Date, Month, Year, Quarter
MarketPrices	Date, AssetId, MarketPrice

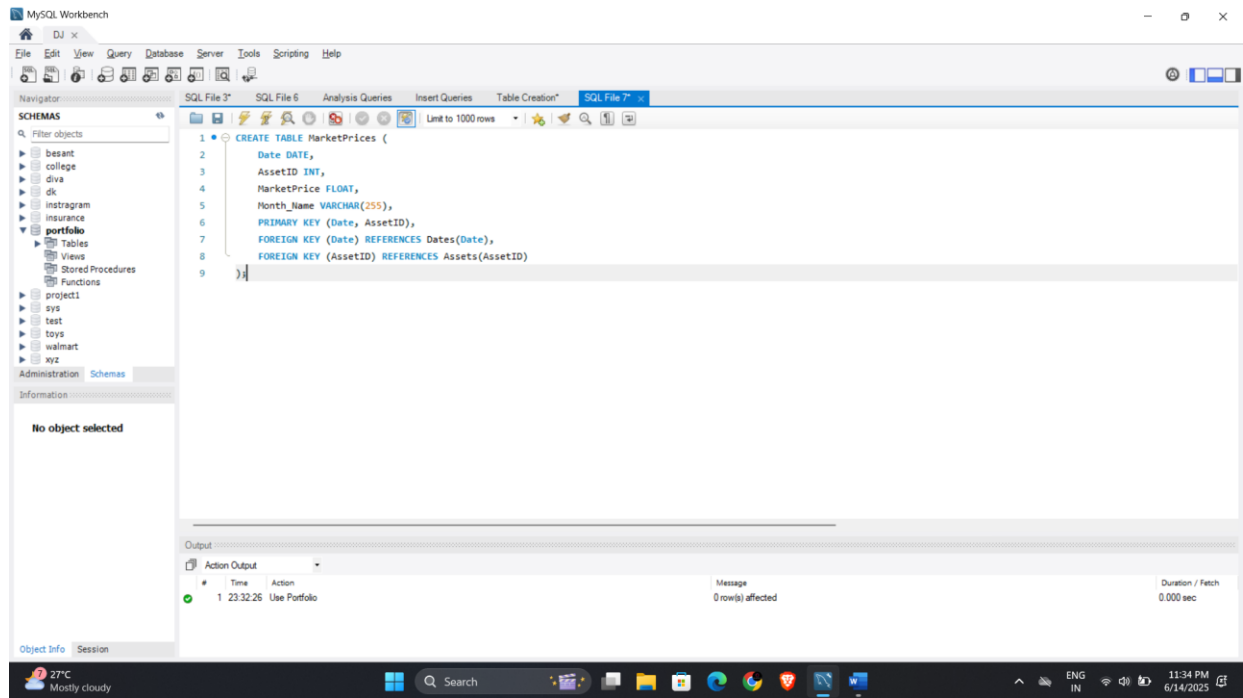
### 4. Database Schema

#### 1. Database Creation

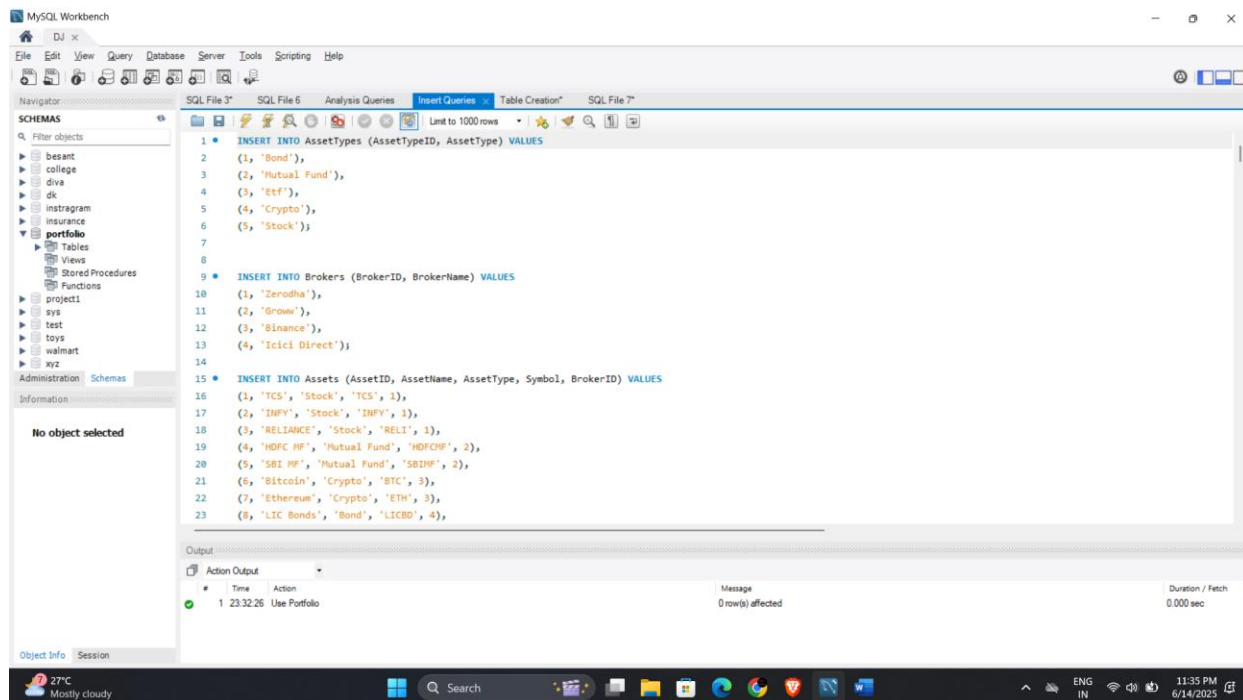


## 2. Table Creation





### 3. Insert Queries



MySQL Workbench

File Edit View Query Database Server Tools Scripting Help

Navigator

SCHEMAS

Filter objects

- besant
- college
- diva
- dk
- inigram
- insurance
- portfolio
  - Tables
  - Views
  - Stored Procedures
  - Functions
- project1
- sys
- test
- toys
- walmart
- xyz

Administration Schemas

Information

No object selected

SQL File 3\* SQL File 6 Analysis Queries Insert Queries Table Creation\* SQL File 7\*

Limit to 1000 rows

```
28 * INSERT INTO Dates (Date, Month, Year, Quarter) VALUES
29 ('2025-07-01', 'July', 2025, 'Q3'),
30 ('2025-07-02', 'July', 2025, 'Q3'),
31 ('2025-07-03', 'July', 2025, 'Q3'),
32 ('2025-07-04', 'July', 2025, 'Q3'),
33 ('2025-07-05', 'July', 2025, 'Q3'),
34 ('2025-07-06', 'July', 2025, 'Q3'),
35 ('2025-07-07', 'July', 2025, 'Q3'),
36 ('2025-07-08', 'July', 2025, 'Q3'),
37 ('2025-07-09', 'July', 2025, 'Q3'),
38 ('2025-07-10', 'July', 2025, 'Q3'),
39 ('2025-07-11', 'July', 2025, 'Q3'),
40 ('2025-07-12', 'July', 2025, 'Q3'),
41 ('2025-07-13', 'July', 2025, 'Q3'),
42 ('2025-07-14', 'July', 2025, 'Q3'),
43 ('2025-07-15', 'July', 2025, 'Q3'),
44 ('2025-07-16', 'July', 2025, 'Q3'),
45 ('2025-07-17', 'July', 2025, 'Q3'),
46 ('2025-07-18', 'July', 2025, 'Q3'),
47 ('2025-07-19', 'July', 2025, 'Q3'),
48 ('2025-07-20', 'July', 2025, 'Q3'),
49 ('2025-07-21', 'July', 2025, 'Q3'),
50 ('2025-07-22', 'July', 2025, 'Q3'),
```

Output

Action Output

#	Time	Action	Message	Duration / Fetch
1	23.32.26	Use Portfolio	0 row(s) affected	0.000 sec

Object Info Session

27°C Mostly cloudy

Search

ENG IN 11:35 PM 6/14/2025

MySQL Workbench

File Edit View Query Database Server Tools Scripting Help

Navigator

SCHEMAS

Filter objects

- besant
- college
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- dk
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- insurance
- portfolio
  - Tables
  - Views
  - Stored Procedures
  - Functions
- project1
- sys
- test
- toys
- walmart
- xyz

Administration Schemas

Information

No object selected

SQL File 3\* SQL File 6 Analysis Queries Insert Queries Table Creation\* SQL File 7\*

Limit to 1000 rows

```
397
398 * INSERT INTO InvestmentTransactions (TransactionID, Date, AssetID, Type, Quantity, PricePerUnit, TotalValue, InvestmentFlow) VALUES
399 (1, '2025-05-18', 3, 'buy', 43, 1003.04, 43130.72, 'Inflow'),
400 (3, '2025-05-22', 4, 'buy', 46, 692.26, 31843.96, 'Inflow'),
401 (5, '2025-05-18', 4, 'buy', 22, 139.97, 3079.34, 'Inflow'),
402 (6, '2025-05-21', 4, 'buy', 1, 234.89, 234.89, 'Inflow'),
403 (7, '2025-05-28', 1, 'buy', 5, 1820.3, 9101.5, 'Inflow'),
404 (9, '2025-05-30', 8, 'buy', 35, 351.99, 12298.65, 'Inflow'),
405 (10, '2025-05-26', 10, 'sell', 16, 1590.70, 25452.48, 'Outflow'),
406 (11, '2025-05-14', 7, 'buy', 7, 204.17, 1989.19, 'Inflow'),
407 (12, '2025-05-24', 6, 'sell', 27, 987.35, 26658.45, 'Outflow'),
408 (13, '2025-05-11', 1, 'buy', 4, 864.98, 3459.92, 'Inflow'),
409 (14, '2025-05-15', 2, 'buy', 13, 461.4, 5998.2, 'Inflow'),
410 (15, '2025-05-08', 3, 'sell', 12, 629.24, 7550.88, 'Outflow'),
411 (16, '2025-05-21', 2, 'sell', 36, 286.03, 10297.08, 'Outflow'),
412 (17, '2025-05-28', 9, 'buy', 6, 1060.1, 11160.6, 'Inflow'),
413 (18, '2025-05-07', 4, 'buy', 27, 1022.72, 27613.44, 'Inflow'),
414 (21, '2025-05-07', 9, 'sell', 10, 460.81, 4608.1, 'Outflow'),
415 (22, '2025-05-02', 1, 'buy', 46, 695.05, 33480.8, 'Inflow'),
416 (23, '2025-05-17', 10, 'sell', 33, 1846.84, 60945.72, 'Outflow'),
417 (24, '2025-05-06', 3, 'buy', 33, 252.21, 8322.93, 'Inflow'),
418 (25, '2025-05-13', 2, 'buy', 44, 1737.46, 76448.24, 'Inflow'),
419 (26, '2025-09-11', 3, 'sell', 28, 437.14, 12239.92, 'Outflow'),
```

Output

Action Output

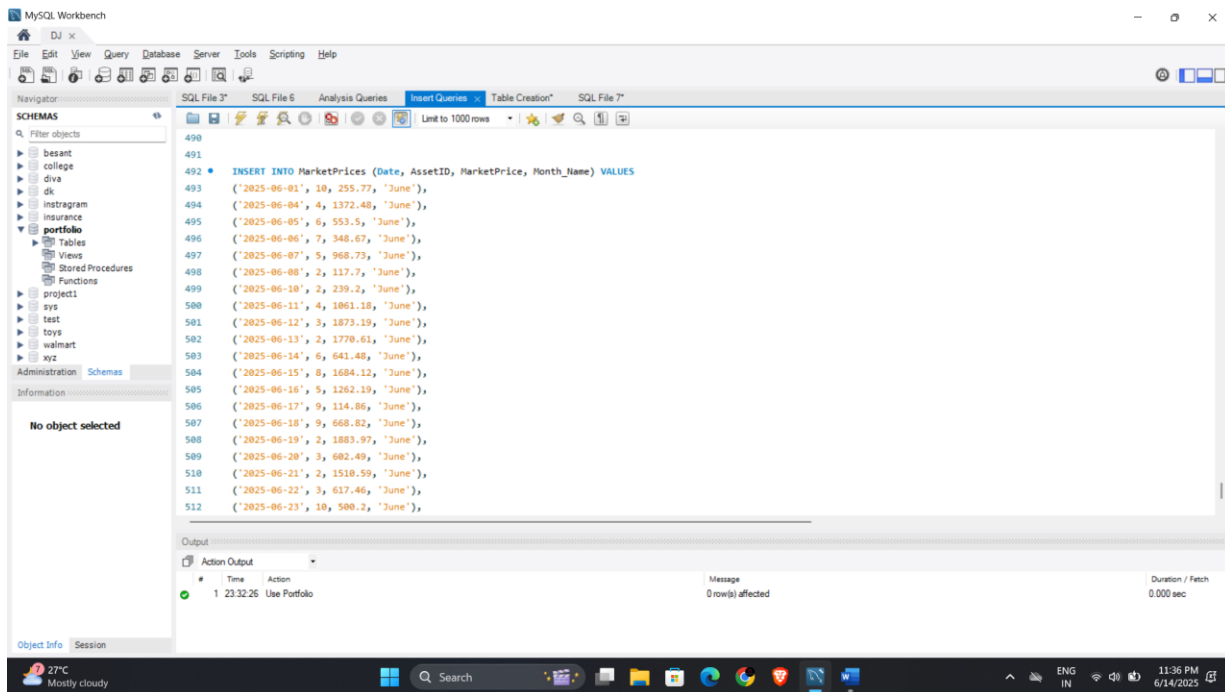
#	Time	Action	Message	Duration / Fetch
1	23.32.26	Use Portfolio	0 row(s) affected	0.000 sec

Object Info Session

27°C Mostly cloudy

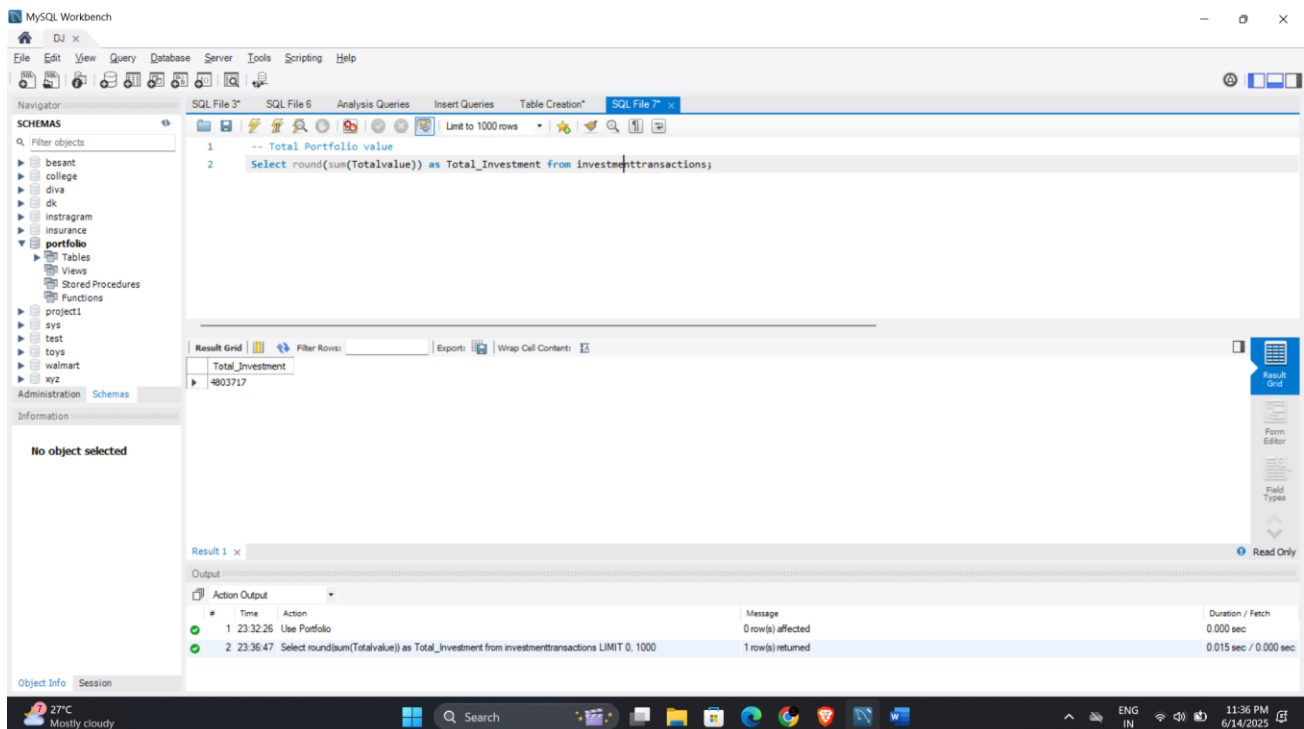
Search

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## 5. SQL Queries & Insights

### 1. Total Investment has been Made



## 2. Top 3 Assets by Total Value

The screenshot shows the MySQL Workbench interface. The SQL editor contains the following query:

```
-- Top 3 Asset by Total Value
SELECT
  a.assetname, ROUND(SUM(t.totalvalue)) AS Total_Investment
FROM
  Investmenttransactions t
JOIN
  assets a ON t.AssetId = a.AssetId
GROUP BY a.AssetName
ORDER BY Total_Investment DESC
LIMIT 3;
```

The Result Grid shows the following data:

assetname	Total_Investment
TCS	792673
Bitcoin	750517
Gold ETF	700242

The Output pane shows the execution log:

#	Time	Action	Message	Duration / Fetch
1	23:32:26	Use Portfolio	0 row(s) affected	0.000 sec
2	23:36:47	Select round(sum(Totalvalue)) as Total_Investment from investmenttransactions LIMIT 0, 1000	1 row(s) returned	0.015 sec / 0.000 sec
3	23:37:45	SELECT a.assetname, ROUND(SUM(t.totalvalue)) AS Total_Investment FROM investmenttransactions t	3 row(s) returned	0.000 sec / 0.000 sec

## 3. Monthly Investment Flow (Inflow / Outflow)

The screenshot shows the MySQL Workbench interface. The SQL editor contains the following query:

```
-- MONTHLY INVESTMENT FLOW (INFLOW / OUTFLOW)
SELECT D.MONTH, T.investmentflow, ROUND(SUM(T.totalvalue), 2) AS total FROM
  Investmenttransactions T JOIN
  dates D ON T.DATE=D.DATE
GROUP BY D.MONTH, T.investmentflow
ORDER BY D.MONTH;
```

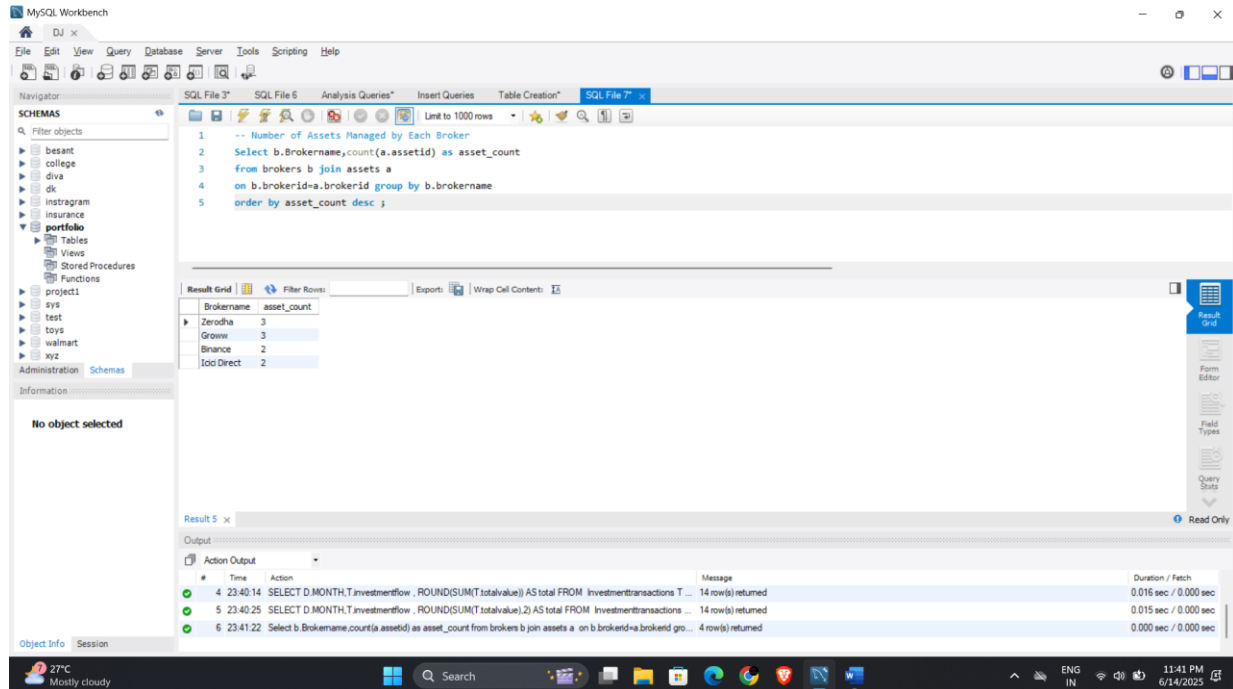
The Result Grid shows the following data:

MONTH	Investmentflow	total
August	Inflow	598173.13
August	Outflow	462664.02
July	Inflow	287555.68
July	Outflow	516607.82
June	Inflow	216351.41
June	Outflow	632045.33
May	Inflow	268082.38
May	Outflow	135512.71
November	Inflow	169026.34
November	Outflow	528275.11
October	Inflow	127125.2
October	Outflow	444227.07
September	Inflow	144760.72
September	Outflow	273310.4

The Output pane shows the execution log:

#	Time	Action	Message	Duration / Fetch
3	23:37:45	SELECT a.assetname, ROUND(SUM(t.totalvalue)) AS Total_Investment FROM investmenttransactions t	3 row(s) returned	0.000 sec / 0.000 sec
4	23:40:14	SELECT D.MONTH, T.investmentflow, ROUND(SUM(T.totalvalue)) AS total FROM Investmenttransactions T	14 row(s) returned	0.016 sec / 0.000 sec
5	23:42:25	SELECT D.MONTH, T.investmentflow, ROUND(SUM(T.totalvalue), 2) AS total FROM Investmenttransactions	14 row(s) returned	0.015 sec / 0.000 sec

## 4. Number of Assets Managed by Each Broker



The screenshot shows the MySQL Workbench interface. The SQL editor contains the following query:

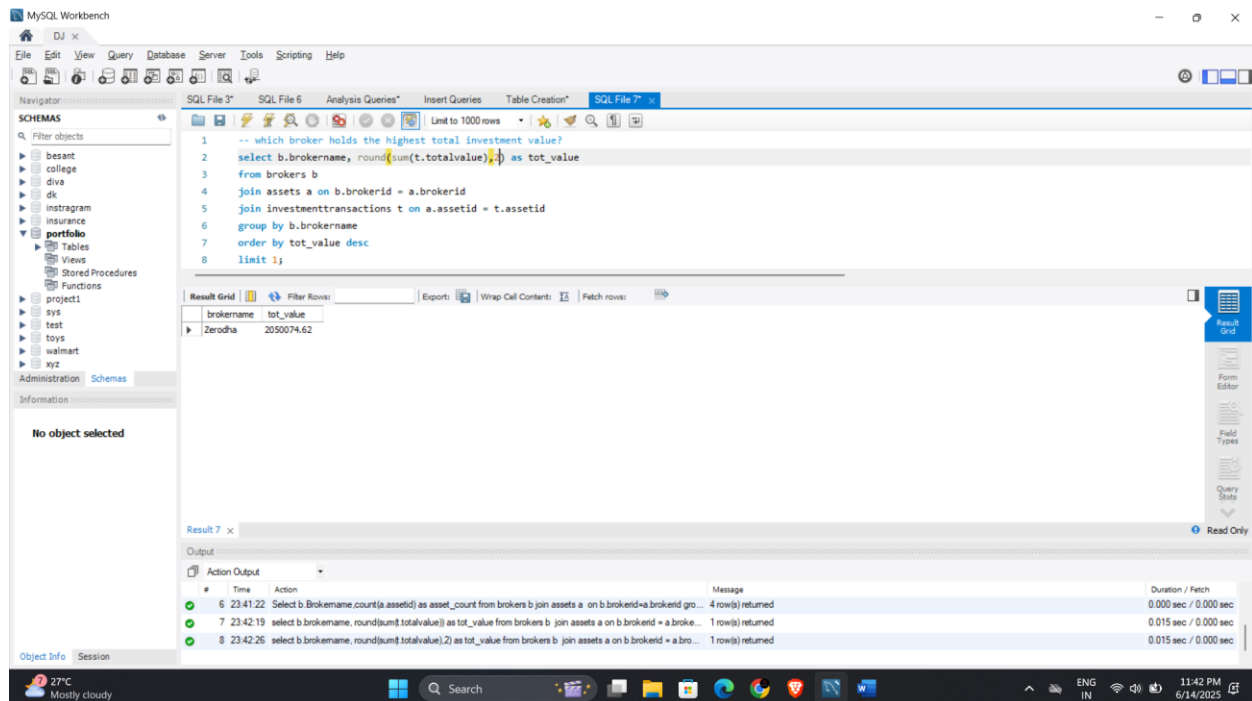
```
-- Number of Assets Managed by Each Broker
select b.brokername, count(a.assetid) as asset_count
from brokers b join assets a
on b.brokerid=a.brokerid group by b.brokername
order by asset_count desc ;
```

The Result Grid shows the following data:

Brokername	asset_count
Zerodha	3
Groww	3
Binance	2
Idd Direct	2

The Action Output shows the execution details of the query, including the time taken and the number of rows returned.

## 5. Which broker holds the highest total investment value?



The screenshot shows the MySQL Workbench interface. The SQL editor contains the following query:

```
-- which broker holds the highest total investment value?
select b.brokername, round(sum(t.totalvalue),2) as tot_value
from brokers b
join assets a on b.brokerid = a.brokerid
join investmenttransactions t on a.assetid = t.assetid
group by b.brokername
order by tot_value desc
limit 1;
```

The Result Grid shows the following data:

brokername	tot_value
Zerodha	2050074.62

The Action Output shows the execution details of the query, including the time taken and the number of rows returned.

## 6. Last Three Transactions

The screenshot shows the MySQL Workbench interface. The SQL editor contains the following query:

```
-- LAST THREE TRANSACTIONS
SELECT T.transactionid, T.DATE, T.quantity,
       T.TYPE, T.priceperunit, T.totalvalue, T.assetid,
       A.assetname FROM investmenttransactions T JOIN
       assets A ON T.assetid=A.assetid
ORDER BY DATE DESC LIMIT 3;
```

The Result Grid displays the following data:

transactionid	DATE	quantity	TYPE	priceperunit	totalvalue	assetid	assetname
27	2025-11-27	67	sell	1632.99	109410	5	S&P 500
83	2025-11-22	11	buy	1118.58	12304.4	9	Gold ETF
58	2025-11-22	56	sell	1160.97	65014.3	8	LIC Bonds

The Output pane shows the execution log with the following entries:

#	Time	Action	Message	Duration / Fetch
7	23:42:19	select b brokername, round(sum(t.totalvalue)) as tot_value from brokers b join assets a on b brokerid = a broke...	1 row(s) returned	0.015 sec / 0.000 sec
8	23:42:26	select b brokername, round(sum(t.totalvalue)/2) as tot_value from brokers b join assets a on b brokerid = a bro...	1 row(s) returned	0.015 sec / 0.000 sec
9	23:44:16	SELECT T.transactionid, T.DATE, T.quantity, T.TYPE, T.priceperunit, T.totalvalue, T.assetid, A.assetname FRO...	3 row(s) returned	0.000 sec / 0.000 sec

## 7. Same Assets Invested on More Than 8 Days

The screenshot shows the MySQL Workbench interface. The SQL editor contains the following query:

```
SELECT AssetName
FROM Assets
WHERE AssetID IN (
    SELECT AssetID
    FROM InvestmentTransactions
    GROUP BY AssetID
    HAVING COUNT(DISTINCT Date) > 8
);
```

The Result Grid displays the following data:

AssetName
TCS
RELIANCE
HDFC WF
Bitcoin
Gold ETF

The Output pane shows the execution log with the following entries:

#	Time	Action	Message	Duration / Fetch
8	23:42:26	select b brokername, round(sum(t.totalvalue)/2) as tot_value from brokers b join assets a on b brokerid = a bro...	1 row(s) returned	0.015 sec / 0.000 sec
9	23:44:16	SELECT T.transactionid, T.DATE, T.quantity, T.TYPE, T.priceperunit, T.totalvalue, T.assetid, A.assetname FRO...	3 row(s) returned	0.000 sec / 0.000 sec
10	23:45:05	SELECT AssetName FROM Assets WHERE AssetID IN ( SELECT AssetID FROM InvestmentTransac...	5 row(s) returned	0.016 sec / 0.000 sec



## 8. Percentage of Investment Per Broker

The screenshot shows the MySQL Workbench interface. The SQL editor contains the following query:

```
2 SELECT BrokerName,  
3 ROUND((SUM(t.TotalValue) / (SELECT SUM(TotalValue)  
4 FROM InvestmentTransactions)) * 100, 2)  
5 AS InvestmentShare  
6 FROM InvestmentTransactions t  
7 JOIN ASSETS A ON T.ASSETID=A.ASSETID  
8 JOIN Brokers b ON B.BrokerID = A.BrokerID  
9 GROUP BY BrokerName;
```

The Result Grid shows the following data:

BrokerName	InvestmentShare
Zerodha	42.68
Groww	12.19
Binance	23.67
Idol Direct	21.47

The Output pane shows the execution log with the following messages:

- 9 23:44:16 SELECT T.TransactionID, T.DATE, T.Quantity, T.Type, T.PricePerUnit, T.TotalValue, T.AssetID, A.AssetName FROM... 3 row(s) returned
- 10 23:45:05 SELECT AssetName FROM Assets WHERE AssetID IN ( SELECT AssetID FROM InvestmentTransac... 5 row(s) returned
- 11 23:45:38 SELECT BrokerName, ROUND(SUM(t.TotalValue) / (SELECT SUM(TotalValue) FROM InvestmentTran... 4 row(s) returned

## 9. Average Price Per Unit for Each Asset

The screenshot shows the MySQL Workbench interface. The SQL editor contains the following query:

```
1 -- Average Price Per Unit for Each Asset  
2 SELECT  
3 a.AssetName,  
4 ROUND(AVG(it.PricePerUnit), 2) AS AvgPrice  
5 FROM InvestmentTransactions it  
6 JOIN Assets a ON it.AssetID = a.AssetID  
7 GROUP BY it.AssetID;
```

The Result Grid shows the following data:

AssetName	AvgPrice
TCS	1349.62
INFY	1216.28
RELIANCE	873.05
NIFTY	609.15
SBI MF	1395.43
Bitcoin	1084.07
Ethereum	1021.05
LIC Bonds	1043.75
Gold ETF	1240.71
Axis MF	1718.81

The Output pane shows the execution log with the following messages:

- 10 23:45:05 SELECT AssetName FROM Assets WHERE AssetID IN ( SELECT AssetID FROM InvestmentTransac... 5 row(s) returned
- 11 23:45:38 SELECT BrokerName, ROUND(SUM(t.TotalValue) / (SELECT SUM(TotalValue) FROM InvestmentTran... 4 row(s) returned
- 12 23:46:04 SELECT a.AssetName, ROUND(AVG(it.PricePerUnit), 2) AS AvgPrice FROM InvestmentTransactions t... 10 row(s) returned

## 10. Daily Investment Summary

The screenshot shows the MySQL Workbench interface with a query titled "Daily Investment Summary". The query is as follows:

```
-- Daily Investment Summary
SELECT
  Date,
  round(SUM(Quantity * PricePerUnit),2) AS TotalInvested
FROM InvestmentTransactions
GROUP BY Date
ORDER BY Date;
```

The results are displayed in a table with two columns: Date and TotalInvested.

Date	TotalInvested
2025-05-02	33400.8
2025-05-06	8322.93
2025-05-07	32221.54
2025-05-08	7550.88
2025-05-11	3459.92
2025-05-13	76448.24
2025-05-14	1989.19
2025-05-15	5998.2
2025-05-17	60945.72
2025-05-18	46210.06
2025-05-21	10531.97
2025-05-22	31843.96
2025-05-24	26658.45
2025-05-26	25452.48

The bottom panel shows the execution log with the following entries:

#	Time	Action	Message	Duration / Fetch
11	23:45:38	SELECT BrokerName, ROUND(SUM(TotalValue) / (SELECT SUM(TotalValue) FROM InvestmentTransactions) AS AvgPrice FROM InvestmentTransactions	4 row(s) returned	0.000 sec / 0.000 sec
12	23:46:04	SELECT a.AssetName, ROUND(AVG(PricePerUnit), 2) AS AvgPrice FROM InvestmentTransactions	10 row(s) returned	0.000 sec / 0.000 sec
13	23:46:26	SELECT Date, round(SUM(Quantity * PricePerUnit),2) AS TotalInvested FROM InvestmentTransactions	73 row(s) returned	0.015 sec / 0.000 sec

## 11. Least Invested Broker

The screenshot shows the MySQL Workbench interface with a query titled "Least Invested Broker". The query is as follows:

```
-- Least Invested Broker
SELECT
  b.BrokerName,
  round(SUM(it.quantity * it.PricePerUnit),2) AS TotalInvested
FROM InvestmentTransactions it
JOIN assets a ON a.assetid=it.assetid
JOIN Brokers b ON b.BrokerID = a.BrokerID
GROUP BY b.BrokerID
ORDER BY TotalInvested ASC
LIMIT 1;
```

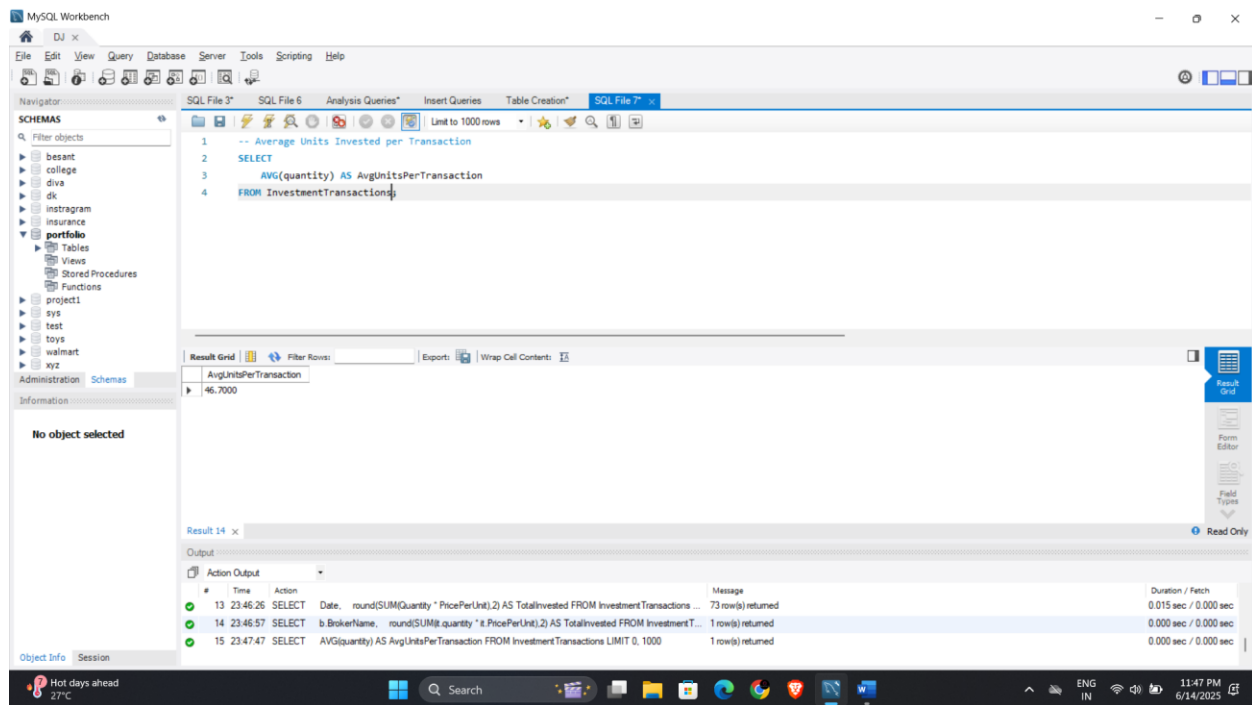
The results are displayed in a table with two columns: BrokerName and TotalInvested.

BrokerName	TotalInvested
Groww	585506.01

The bottom panel shows the execution log with the following entries:

#	Time	Action	Message	Duration / Fetch
12	23:46:04	SELECT a.AssetName, ROUND(AVG(PricePerUnit), 2) AS AvgPrice FROM InvestmentTransactions	10 row(s) returned	0.000 sec / 0.000 sec
13	23:46:26	SELECT Date, round(SUM(Quantity * PricePerUnit),2) AS TotalInvested FROM InvestmentTransactions	73 row(s) returned	0.015 sec / 0.000 sec
14	23:46:57	SELECT b.BrokerName, round(SUM(it.quantity * it.PricePerUnit),2) AS TotalInvested FROM InvestmentTransactions	1 row(s) returned	0.000 sec / 0.000 sec

## 12. Average Units Invested per Transaction



The screenshot displays the MySQL Workbench interface. The left sidebar shows a schema named 'portfolio' with tables 'InvestmentTransactions' and 'Units'. The main editor window contains the following SQL query:

```
-- Average Units Invested per Transaction
SELECT
  AVG(quantity) AS AvgUnitsPerTransaction
FROM InvestmentTransactions
```

The 'Result Grid' shows the query results:

Table	AvgUnitsPerTransaction
InvestmentTransactions	46.7000

The 'Output' pane at the bottom shows the execution log:

#	Time	Action	Message	Duration / Fetch
13	23:46:26	SELECT	Date, round(SUM(quantity * PricePerUnit),2) AS TotalInvested FROM InvestmentTransactions ... 73 row(s) returned	0.015 sec / 0.000 sec
14	23:46:57	SELECT	b.BrokerName, round(SUM(quantity * t.PricePerUnit),2) AS TotalInvested FROM InvestmentT... 1 row(s) returned	0.000 sec / 0.000 sec
15	23:47:47	SELECT	AVG(quantity) AS AvgUnitsPerTransaction FROM InvestmentTransactions LIMIT 0, 1000 1 row(s) returned	0.000 sec / 0.000 sec

## 7. Conclusion

This SQL project demonstrates how structured financial data can be modeled, queried, and analyzed to extract meaningful insights. It highlights skills in schema design, and writing efficient SQL queries.

## 8 . Appendix

### 1. Table Creation

Create Database Portfolio;  
Use Portfolio;

```
CREATE TABLE AssetTypes (  
    AssetTypeID INT PRIMARY KEY,  
    AssetType VARCHAR(255) NOT NULL UNIQUE  
);
```

```
CREATE TABLE Brokers (  
    BrokerID INT PRIMARY KEY,  
    BrokerName VARCHAR(255) NOT NULL  
);
```

```
CREATE TABLE Assets (  
    AssetID INT PRIMARY KEY,  
    AssetName VARCHAR(255) NOT NULL,  
    AssetType VARCHAR(255) NOT NULL,  
    Symbol VARCHAR(255) NOT NULL,  
    BrokerID INT,  
    FOREIGN KEY (AssetType) REFERENCES AssetTypes(AssetType),  
    FOREIGN KEY (BrokerID) REFERENCES Brokers(BrokerID)  
);
```

```
CREATE TABLE Dates (  
    Date DATE PRIMARY KEY,  
    Month Varchar(15),  
    Year INT,  
    Quarter Varchar(15)  
);
```

```
CREATE TABLE InvestmentTransactions (  
    TransactionID INT PRIMARY KEY,  
    Date DATE,  
    AssetID INT,  
    Type VARCHAR(255),  
    Quantity INT,  
    PricePerUnit FLOAT,
```

```
TotalValue FLOAT,  
InvestmentFlow VARCHAR(255),  
FOREIGN KEY (Date) REFERENCES Dates(Date),  
FOREIGN KEY (AssetID) REFERENCES Assets(AssetID)  
);
```

```
CREATE TABLE MarketPrices (  
    Date DATE,  
    AssetID INT,  
    MarketPrice FLOAT,  
    Month_Name VARCHAR(255),  
    PRIMARY KEY (Date, AssetID),  
    FOREIGN KEY (Date) REFERENCES Dates(Date),  
    FOREIGN KEY (AssetID) REFERENCES Assets(AssetID)  
);
```

## 2. Insert Queries

```
INSERT INTO AssetTypes (AssetTypeID, AssetType) VALUES  
(1, 'Bond'),  
(2, 'Mutual Fund'),  
(3, 'Etf'),  
(4, 'Crypto'),  
(5, 'Stock');
```

```
INSERT INTO Brokers (BrokerID, BrokerName) VALUES  
(1, 'Zerodha'),  
(2, 'Groww'),  
(3, 'Binance'),  
(4, 'Icici Direct');
```

```
INSERT INTO Assets (AssetID, AssetName, AssetType, Symbol, BrokerID) VALUES  
(1, 'TCS', 'Stock', 'TCS', 1),  
(2, 'INFY', 'Stock', 'INFY', 1),  
(3, 'RELIANCE', 'Stock', 'RELI', 1),  
(4, 'HDFC MF', 'Mutual Fund', 'HDFCMF', 2),  
(5, 'SBI MF', 'Mutual Fund', 'SBIMF', 2),  
(6, 'Bitcoin', 'Crypto', 'BTC', 3),  
(7, 'Ethereum', 'Crypto', 'ETH', 3),  
(8, 'LIC Bonds', 'Bond', 'LICBD', 4),  
(9, 'Gold ETF', 'Etf', 'GOLDETF', 4),  
(10, 'Axis MF', 'Mutual Fund', 'AXISMF', 2);
```

INSERT INTO Dates (Date, Month, Year, Quarter) VALUES

('2025-07-01', 'July', 2025, 'Q3'),  
('2025-07-02', 'July', 2025, 'Q3'),  
('2025-07-03', 'July', 2025, 'Q3'),  
('2025-07-04', 'July', 2025, 'Q3'),  
('2025-07-05', 'July', 2025, 'Q3'),  
('2025-07-06', 'July', 2025, 'Q3'),  
('2025-07-07', 'July', 2025, 'Q3'),  
('2025-07-08', 'July', 2025, 'Q3'),  
('2025-07-09', 'July', 2025, 'Q3'),  
('2025-07-10', 'July', 2025, 'Q3'),  
('2025-07-11', 'July', 2025, 'Q3'),  
('2025-07-12', 'July', 2025, 'Q3'),  
('2025-07-13', 'July', 2025, 'Q3'),  
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('2025-07-15', 'July', 2025, 'Q3'),  
('2025-07-16', 'July', 2025, 'Q3'),  
('2025-07-17', 'July', 2025, 'Q3'),  
('2025-07-18', 'July', 2025, 'Q3'),  
('2025-07-19', 'July', 2025, 'Q3'),  
('2025-07-20', 'July', 2025, 'Q3'),  
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(9, '2025-05-30', 8, 'buy', 35, 351.39, 12298.65, 'Inflow'),  
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(11, '2025-05-14', 7, 'buy', 7, 284.17, 1989.19, 'Inflow'),  
(12, '2025-05-24', 6, 'sell', 27, 987.35, 26658.45, 'Outflow'),  
(13, '2025-05-11', 1, 'buy', 4, 864.98, 3459.92, 'Inflow'),  
(14, '2025-05-15', 2, 'buy', 13, 461.4, 5998.2, 'Inflow'),  
(15, '2025-05-08', 3, 'sell', 12, 629.24, 7550.88, 'Outflow'),  
(16, '2025-05-21', 2, 'sell', 36, 286.03, 10297.08, 'Outflow'),  
(17, '2025-05-28', 9, 'buy', 6, 1860.1, 11160.6, 'Inflow'),  
(18, '2025-05-07', 4, 'buy', 27, 1022.72, 27613.44, 'Inflow'),  
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(22, '2025-05-02', 1, 'buy', 48, 695.85, 33400.8, 'Inflow'),  
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(24, '2025-05-06', 3, 'buy', 33, 252.21, 8322.93, 'Inflow'),  
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(26, '2025-09-11', 3, 'sell', 28, 437.14, 12239.92, 'Outflow'),  
(27, '2025-11-27', 5, 'sell', 67, 1632.99, 109410.33, 'Outflow'),

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(29, '2025-06-15', 9, 'sell', 99, 1575.18, 155942.82, 'Outflow'),  
(31, '2025-08-11', 7, 'sell', 71, 915.09, 64971.39, 'Outflow'),  
(33, '2025-09-11', 8, 'buy', 18, 1814.85, 32667.3, 'Inflow'),  
(34, '2025-09-30', 3, 'sell', 21, 1670.27, 35075.67, 'Outflow'),  
(35, '2025-08-14', 5, 'sell', 10, 1801.49, 18014.9, 'Outflow'),  
(36, '2025-08-27', 3, 'sell', 67, 120.59, 8079.53, 'Outflow'),  
(37, '2025-09-25', 7, 'buy', 10, 273.44, 2734.4, 'Inflow'),  
(40, '2025-10-30', 7, 'buy', 98, 952.05, 93300.9, 'Inflow'),  
(41, '2025-10-09', 4, 'buy', 10, 724.46, 7244.6, 'Inflow'),  
(42, '2025-10-28', 7, 'sell', 25, 1529.51, 38237.75, 'Outflow'),  
(45, '2025-08-27', 6, 'buy', 72, 1144.1, 82375.2, 'Inflow'),  
(46, '2025-11-05', 9, 'sell', 78, 1786.64, 139357.92, 'Outflow'),  
(48, '2025-10-08', 7, 'sell', 76, 1546.87, 117562.12, 'Outflow'),  
(51, '2025-07-28', 9, 'buy', 25, 1661.53, 41538.25, 'Inflow'),  
(53, '2025-08-28', 6, 'buy', 95, 1974.62, 187588.9, 'Inflow'),  
(54, '2025-07-19', 9, 'sell', 66, 804.22, 53078.52, 'Outflow'),  
(55, '2025-07-29', 1, 'sell', 38, 1899.77, 72191.26, 'Outflow'),  
(56, '2025-11-17', 8, 'buy', 87, 1531.42, 133233.54, 'Inflow'),  
(57, '2025-06-15', 6, 'buy', 78, 258.65, 20174.7, 'Inflow'),  
(58, '2025-11-22', 8, 'sell', 56, 1160.97, 65014.32, 'Outflow'),  
(64, '2025-07-21', 1, 'sell', 99, 1208.4, 119631.6, 'Outflow'),  
(66, '2025-06-21', 1, 'sell', 94, 1750.34, 164531.96, 'Outflow'),  
(71, '2025-08-28', 6, 'sell', 78, 1152.32, 89880.96, 'Outflow'),  
(72, '2025-07-30', 4, 'sell', 43, 1093.89, 47037.27, 'Outflow'),  
(73, '2025-06-14', 6, 'sell', 61, 1421.92, 86737.12, 'Outflow'),  
(74, '2025-06-09', 1, 'sell', 19, 1292.36, 24554.84, 'Outflow'),  
(76, '2025-07-23', 3, 'buy', 67, 633.83, 42466.61, 'Inflow'),  
(78, '2025-08-23', 3, 'buy', 78, 1278.25, 99703.5, 'Inflow'),  
(79, '2025-08-31', 4, 'buy', 13, 457.43, 5946.59, 'Inflow'),  
(80, '2025-09-19', 4, 'sell', 25, 771.37, 19284.25, 'Outflow'),  
(81, '2025-11-19', 8, 'buy', 33, 247.7, 8174.1, 'Inflow'),  
(82, '2025-06-08', 2, 'sell', 89, 1973.8, 175668.2, 'Outflow'),  
(83, '2025-11-22', 9, 'buy', 11, 1118.58, 12304.38, 'Inflow'),  
(84, '2025-07-05', 7, 'sell', 41, 1646.21, 67494.61, 'Outflow'),  
(85, '2025-08-20', 3, 'sell', 93, 408.97, 38034.21, 'Outflow'),  
(86, '2025-11-11', 9, 'sell', 33, 1662.82, 54873.06, 'Outflow'),  
(87, '2025-07-20', 1, 'sell', 21, 1478.87, 31056.27, 'Outflow'),  
(88, '2025-09-12', 5, 'buy', 59, 894.66, 52784.94, 'Inflow'),  
(90, '2025-06-02', 3, 'sell', 42, 150.1, 6304.2, 'Outflow'),  
(91, '2025-10-12', 3, 'sell', 42, 1640.05, 68882.1, 'Outflow'),  
(92, '2025-07-24', 6, 'buy', 70, 385.79, 27005.3, 'Inflow'),  
(93, '2025-09-14', 8, 'sell', 60, 823.69, 49421.4, 'Outflow'),  
(94, '2025-06-04', 1, 'buy', 52, 1700.03, 88401.56, 'Inflow'),

(95, '2025-07-24', 6, 'sell', 21, 990.52, 20800.92, 'Outflow'),  
(97, '2025-07-14', 9, 'buy', 74, 1742.97, 128979.78, 'Inflow'),  
(98, '2025-11-09', 2, 'sell', 42, 1999.46, 83977.32, 'Outflow'),  
(99, '2025-06-14', 2, 'buy', 49, 1155.32, 56610.68, 'Inflow'),  
(100, '2025-09-03', 3, 'sell', 83, 1895.05, 157289.15, 'Outflow'),  
(101, '2025-07-18', 9, 'sell', 52, 569.96, 29637.92, 'Outflow'),  
(102, '2025-06-15', 4, 'sell', 53, 345.4, 18306.2, 'Outflow'),  
(103, '2025-07-10', 5, 'buy', 38, 1251.73, 47565.74, 'Inflow'),  
(104, '2025-08-21', 8, 'buy', 22, 1376.23, 30277.06, 'Inflow'),  
(106, '2025-07-23', 1, 'sell', 55, 1375.99, 75679.45, 'Outflow'),  
(107, '2025-06-24', 3, 'buy', 11, 1567.4, 17241.4, 'Inflow'),  
(108, '2025-11-01', 6, 'sell', 44, 1719.14, 75642.16, 'Outflow'),  
(109, '2025-10-02', 6, 'sell', 96, 1165.78, 111914.88, 'Outflow'),  
(111, '2025-11-04', 2, 'buy', 99, 154.69, 15314.31, 'Inflow'),  
(112, '2025-06-15', 1, 'buy', 17, 1278.59, 21736.03, 'Inflow'),  
(114, '2025-08-04', 3, 'sell', 83, 127.63, 10593.29, 'Outflow'),  
(116, '2025-08-10', 5, 'sell', 43, 931.2, 40041.6, 'Outflow'),  
(117, '2025-06-09', 9, 'buy', 16, 761.69, 12187.04, 'Inflow'),  
(118, '2025-08-27', 1, 'sell', 77, 1588.94, 122348.38, 'Outflow'),  
(119, '2025-10-07', 3, 'sell', 67, 1281.96, 85891.32, 'Outflow'),  
(121, '2025-08-02', 5, 'sell', 38, 1860.52, 70699.76, 'Outflow'),  
(122, '2025-10-17', 1, 'buy', 45, 590.66, 26579.7, 'Inflow'),  
(123, '2025-08-20', 2, 'buy', 98, 1962.06, 192281.88, 'Inflow'),  
(124, '2025-10-14', 6, 'sell', 30, 724.63, 21738.9, 'Outflow');

INSERT INTO MarketPrices (Date, AssetID, MarketPrice, Month\_Name) VALUES

('2025-06-01', 10, 255.77, 'June'),  
( '2025-06-04', 4, 1372.48, 'June'),  
( '2025-06-05', 6, 553.5, 'June'),  
( '2025-06-06', 7, 348.67, 'June'),  
( '2025-06-07', 5, 968.73, 'June'),  
( '2025-06-08', 2, 117.7, 'June'),  
( '2025-06-10', 2, 239.2, 'June'),  
( '2025-06-11', 4, 1061.18, 'June'),  
( '2025-06-12', 3, 1873.19, 'June'),  
( '2025-06-13', 2, 1770.61, 'June'),  
( '2025-06-14', 6, 641.48, 'June'),  
( '2025-06-15', 8, 1684.12, 'June'),  
( '2025-06-16', 5, 1262.19, 'June'),  
( '2025-06-17', 9, 114.86, 'June'),  
( '2025-06-18', 9, 668.82, 'June'),  
( '2025-06-19', 2, 1883.97, 'June'),



```
('2025-06-20', 3, 602.49, 'June'),  
( '2025-06-21', 2, 1510.59, 'June'),  
( '2025-06-22', 3, 617.46, 'June'),  
( '2025-06-23', 10, 500.2, 'June'),  
( '2025-06-24', 6, 486.83, 'June'),  
( '2025-06-25', 5, 1060.28, 'June');
```

### 3. Analysis Queries

-- Total Portfolio value

```
Select round(sum(Totalvalue)) as Total_Investment from investmenttransactions;
```

-- Top 3 Asset by Total Value

```
SELECT  
    a.assetname, ROUND(SUM(t.totalvalue)) AS Total_Investment  
FROM  
    investmenttransactions t  
    JOIN  
    assets a ON t.AssetID = a.AssetID  
GROUP BY a.AssetName  
ORDER BY Total_Investment DESC  
LIMIT 3;
```

-- MONTHLY INVESTMENT FLOW (INFLOW / OUTFLOW)

```
SELECT D.MONTH,T.investmentflow , ROUND(SUM(T.totalvalue),2) AS total FROM  
Investmenttransactions T JOIN  
dates D ON T.DATE=D.DATE  
GROUP BY D.MONTH,T.investmentflow  
ORDER BY D.MONTH;
```

-- Number of Assets Managed by Each Broker

```
Select b.Brokername,count(a.assetid) as asset_count  
from brokers b join assets a  
on b.brokerid=a.brokerid group by b.brokername  
order by asset_count desc ;
```

-- which broker holds the highest total investment value?

```
select b.brokername, round(sum(t.totalvalue),2) as tot_value  
from brokers b  
join assets a on b.brokerid = a.brokerid  
join investmenttransactions t on a.assetid = t.assetid  
group by b.brokername  
order by tot_value desc  
limit 1;
```

-- LAST THREE TRANSACTIONS

```
SELECT T.transactionid,T.DATE,T.quantity,  
T.TYPE,T.priceperunit,T.totalvalue,T.assetid,  
A.assetname FROM investmenttransactions T JOIN  
assets A ON T.assetid=A.assetid  
ORDER BY DATE DESC LIMIT 3;
```

-- Same Assets Invested on More Than 8 Days

```
SELECT AssetName  
FROM Assets  
WHERE AssetID IN (  
    SELECT AssetID  
    FROM InvestmentTransactions  
    GROUP BY AssetID  
    HAVING COUNT(DISTINCT Date) > 8  
);
```

-- Percentage of Investment per Broker

```
SELECT BrokerName,  
    ROUND((SUM(t.TotalValue) / (SELECT SUM(TotalValue)  
                                FROM InvestmentTransactions)) * 100, 2)  
    AS InvestmentShare  
FROM InvestmentTransactions t  
JOIN ASSETS A ON T.ASSETID=A.ASSETID  
JOIN Brokers b ON B.BrokerID = A.BrokerID  
GROUP BY BrokerName;
```

-- Average Price Per Unit for Each Asset

```
SELECT  
    a.AssetName,  
    ROUND(AVG(it.PricePerUnit), 2) AS AvgPrice  
FROM InvestmentTransactions it  
JOIN Assets a ON it.AssetId = a.AssetId  
GROUP BY it.AssetId;
```

-- Daily Investment Summary

```
SELECT  
    Date,  
    round(SUM(Quantity * PricePerUnit),2) AS TotalInvested  
FROM InvestmentTransactions  
GROUP BY Date  
ORDER BY Date;
```

-- Least Invested Broker

```
SELECT
    b.BrokerName,
    round(SUM(it.quantity * it.PricePerUnit),2) AS TotalInvested
FROM InvestmentTransactions it
JOIN assets a ON a.assetid=it.assetid
JOIN Brokers b ON b.BrokerID = a.BrokerID
GROUP BY b.BrokerID
ORDER BY TotalInvested ASC
LIMIT 1;
```

-- Average Units Invested per Transaction

```
SELECT
    AVG(quantity) AS AvgUnitsPerTransaction
FROM InvestmentTransactions;
```