

Adding data using menu:

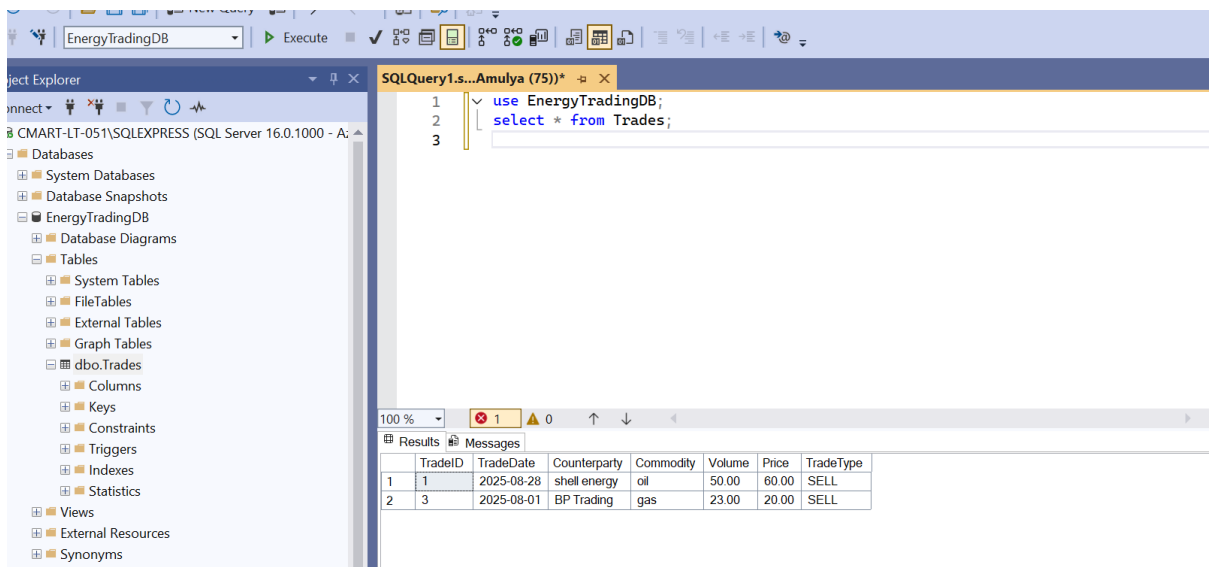
```
PS C:\Users\Amulya\OneDrive - C-Mart Solutions Ltd\Technical\EnergyTrading> & 'C:\Program Files\Java\jdk-17\bin\java.exe'
:\Users\Amulya\AppData\Local\Temp\cp_digp7yg7bcj41nStvf16g18xr.argfile' 'EnergyTradingApp'

===== Energy Trading Menu =====
1. Add a Trade
2. View All Trades
3. Update Trade
4. Delete Trade
5. Search Trades by Counterparty / Commodity
6. Exit
Enter your choice: 1
Enter TradeDate (YYYY-MM-DD): 2025-08-01
Enter Counterparty: BP Trading
Enter Commodity: gas
Enter Volume: 23
Enter Price: 20
Enter TradeType (BUY/SELL): sell
Trade added successfully!

===== Energy Trading Menu =====
1. Add a Trade
2. View All Trades
3. Update Trade
4. Delete Trade
5. Search Trades by Counterparty / Commodity
6. Exit
Enter your choice: |
```

SQL Server Management Studio:

After adding the data



The screenshot shows the SQL Server Enterprise Edition interface. The left pane displays the 'Object Explorer' with the 'EnergyTradingDB' database selected. The right pane shows the 'SQLQuery1.s...Amulya (75))' window with the following SQL query:

```
1 use EnergyTradingDB;
2 select * from Trades;
3
```

Below the query editor, the 'Results' tab is active, displaying the data from the 'Trades' table in a grid format:

	TradeID	TradeDate	Counterparty	Commodity	Volume	Price	TradeType
1	1	2025-08-28	shell energy	oil	50.00	60.00	SELL
2	3	2025-08-01	BP Trading	gas	23.00	20.00	SELL

View data:

```
===== Energy Trading Menu =====
1. Add a Trade
2. View All Trades
3. Update Trade
4. Delete Trade
5. Search Trades by Counterparty / Commodity
6. Exit
Enter your choice: 2

--- All Trades ---
ID: 1 | Date: 2025-08-28 | Counterparty: shell energy | Commodity: oil | Volume: 50.00 | Price: 60.00 | TradeType: SELL
ID: 3 | Date: 2025-08-01 | Counterparty: BP Trading | Commodity: gas | Volume: 23.00 | Price: 20.00 | TradeType: SELL
```

Updating data:

Updated price and volume of trade id 1:

```
--- All Trades ---
ID: 1 | Date: 2025-08-28 | Counterparty: shell energy | Commodity: oil | Volume: 50.00 | Price: 60.00 | TradeType: SELL
ID: 3 | Date: 2025-08-01 | Counterparty: BP Trading | Commodity: gas | Volume: 23.00 | Price: 20.00 | TradeType: SELL

===== Energy Trading Menu =====
1. Add a Trade
2. View All Trades
3. Update Trade
4. Delete Trade
5. Search Trades by Counterparty / Commodity
6. Exit
Enter your choice: 3
Enter TradeID to update: 1
Enter new Price: 80
Enter new Volume: 40
Trade updated successfully!

===== Energy Trading Menu =====
1. Add a Trade
2. View All Trades
3. Update Trade
4. Delete Trade
5. Search Trades by Counterparty / Commodity
6. Exit
Enter your choice: 2

--- All Trades ---
ID: 1 | Date: 2025-08-28 | Counterparty: shell energy | Commodity: oil | Volume: 40.00 | Price: 80.00 | TradeType: SELL
ID: 3 | Date: 2025-08-01 | Counterparty: BP Trading | Commodity: gas | Volume: 23.00 | Price: 20.00 | TradeType: SELL
```

Searching trades used counterparty / commodity:

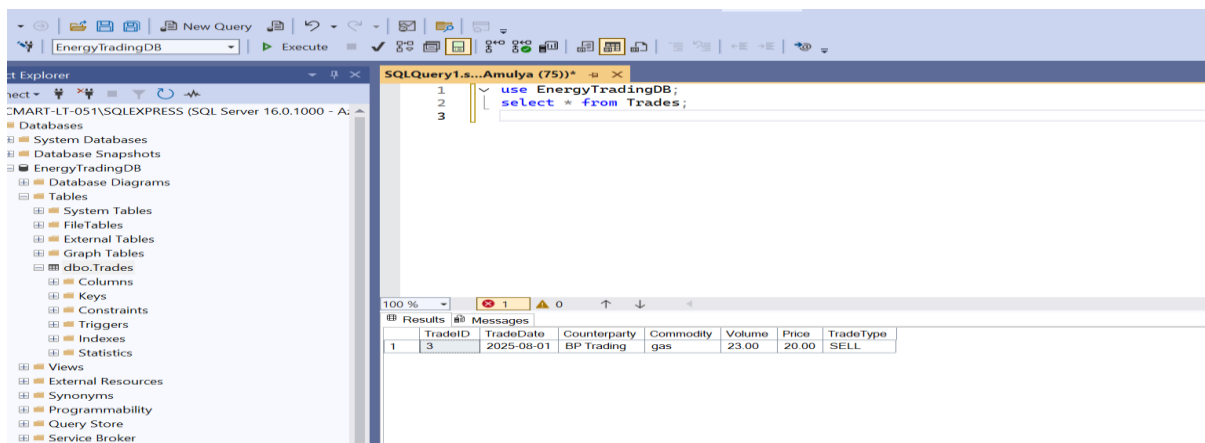
```
===== Energy Trading Menu =====
1. Add a Trade
2. View All Trades
3. Update Trade
4. Delete Trade
5. Search Trades by Counterparty / Commodity
6. Exit
Enter your choice: 5
Search by (1 = Counterparty, 2 = Commodity): 1
Enter Counterparty: shell energy

--- Search Results ---
ID: 1 | Date: 2025-08-28 | Counterparty: shell energy | Commodity: oil | Volume: 40.00 | Price: 80.00 | TradeType: SELL
```

Deleted using id:

```
===== Energy Trading Menu =====
1. Add a Trade
2. View All Trades
3. Update Trade
4. Delete Trade
5. Search Trades by Counterparty / Commodity
6. Exit
Enter your choice: 4
Enter TradeID to delete: 1
Trade deleted successfully!
```

After deleting data SQL Server Management Studio:



The screenshot shows the SQL Server Enterprise Manager interface. The left pane displays the 'EnergyTradingDB' database structure, including tables, views, and indexes. The right pane shows a SQL query executed in the 'SQLQuery1.s...Amulya (75))' window:

```
1 use EnergyTradingDB;
2 select * from Trades;
3
```

The 'Results' pane at the bottom displays the output of the query, showing a single row of data:

TradeID	TradeDate	Counterparty	Commodity	Volume	Price	TradeType
1	2025-08-01	BP Trading	gas	23.00	20.00	SELL