

ASSIGNMENT-1(CRUD OPERATIONS)

1. Create:

IDE output:

```
☒ Connected successfully to EnergyTradingDB

--- Energy Trading Menu ---
1. Add Trade
2. View All Trades
3. Update Trade
4. Delete Trade
5. Search Trades by Counterparty / Commodity
6. Exit
Choose an option: 1
Enter Trade Date (YYYY-MM-DD): 2025-08-01
Enter Counterparty: Shell
Enter Commodity: Power
Enter Volume: 100
Enter Price: 50.25
Enter Trade Type (BUY/SELL): buy
☒ Trade added successfully.

--- Energy Trading Menu ---
1. Add Trade
2. View All Trades
3. Update Trade
4. Delete Trade
5. Search Trades by Counterparty / Commodity
6. Exit
Choose an option: 1
Enter Trade Date (YYYY-MM-DD): 2024-10-02
Enter Counterparty: Reliance
Enter Commodity: Electricity
Enter Volume: 500
Enter Price: 23.50
Enter Trade Type (BUY/SELL): sell
☒ Trade added successfully.
```

Database updates:

[illegible]

2. Read and update:

--- Energy Trading Menu ---

1. Add Trade
2. View All Trades
3. Update Trade
4. Delete Trade
5. Search Trades by Counterparty / Commodity
6. Exit

Choose an option: 2

ID: 1	Date: 2025-08-01	CP: Shell	Cmddy: Power	Vol: 100.00	Price: 50.25	Type: buy
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ID: 2	Date: 2024-10-02	CP: Reliance	Cmdty: Electricity	Vol: 500.00	Price: 23.50	Type: sell
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--- Energy Trading Menu ---

1. Add Trade
2. View All Trades
3. Update Trade
4. Delete Trade
5. Search Trades by Counterparty / Commodity
6. Exit

```

0. Exit
Choose an option: 3

```

Enter Trade ID to update: 1

Enter new Price: 51.25

Enter new Volume: 150

☒ Trade updated.

Database Updation;

[illegible]

3. Deletion:

Before Deletion database :

[illegible]

IDE output:

```
--- Energy Trading Menu ---
1. Add Trade
2. View All Trades
3. Update Trade
4. Delete Trade
5. Search Trades by Counterparty / Commodity
6. Exit
Choose an option: 4
Enter Trade ID to delete: 3
☑ Trade deleted.
```

After deletion:

	TradeID	TradeDate	Counterparty	Commodity	Volume	Price	TradeType
▶	1	2025-08-01	Shell	Power	150.00	51.25	buy
	2	2024-10-02	Reliance	Electricity	500.00	23.50	sell
	4	2024-07-10	hp	oil	300.00	10.00	sell
*	NULL	NULL	NULL	NULL	NULL	NULL	NULL

4. Search:

IDE output:

```
--- Energy Trading Menu ---
1. Add Trade
2. View All Trades
3. Update Trade
4. Delete Trade
5. Search Trades by Counterparty / Commodity
6. Exit
Choose an option: 5
Search by (1) Counterparty or (2) Commodity? 2
Enter Commodity: oil
ID: 4 | Date: 2024-07-10 | CP: hp | Cmdty: oil | Vol: 300.00 | Price: 10.00 | Type: sell

--- Energy Trading Menu ---
1. Add Trade
2. View All Trades
3. Update Trade
4. Delete Trade
5. Search Trades by Counterparty / Commodity
6. Exit
Choose an option: 5
Search by (1) Counterparty or (2) Commodity? 1
Enter Counterparty: hp
ID: 4 | Date: 2024-07-10 | CP: hp | Cmdty: oil | Vol: 300.00 | Price: 10.00 | Type: sell
```

5. Exit:

--- Energy Trading Menu ---

1. Add Trade

2. View All Trades

3. Update Trade

4. Delete Trade

5. Search Trades by Counterparty / Commodity

6. Exit

Choose an option: 6

Exiting...