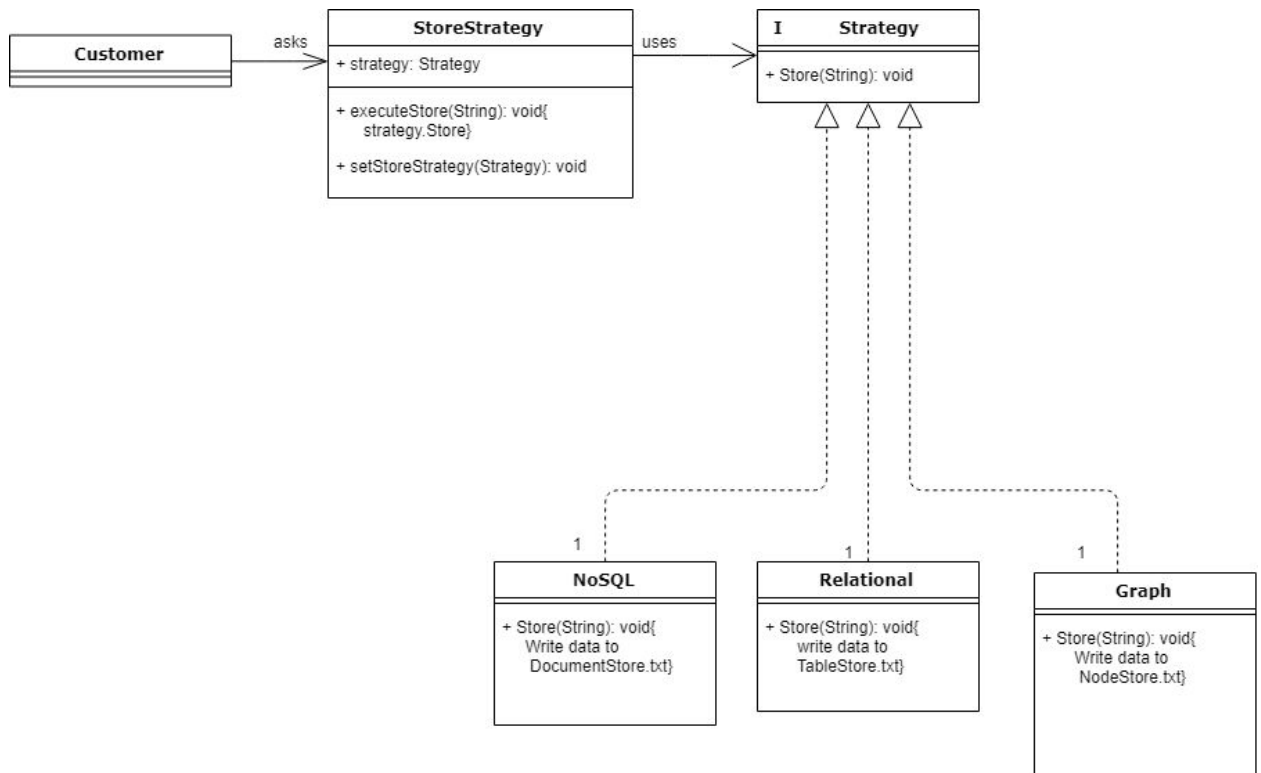John Lambrecht and Skylar Smoker

ESOF 322

HW2

A.

B. setStoreStrategy.java contents:

```
import java.io.FileWriter;
import java.io.IOException;


public class setStoreStrategy {

        private Strategy strategy;

        public setStoreStrategy(Strategy strategy) {
                this.strategy = strategy;
        }
```

```java
        public void executeStore(String a) {
                strategy.Store(a);
        }



}
// interface that defines the method store
interface Strategy {
        public void Store(String a);
}

// NoSQL store class
class NoSQL implements Strategy {

        // document store
        public void Store(String a) {

                try {
                        FileWriter file = new FileWriter("DocumentStore.txt");
                        file.write(a);
                        file.close();
                } catch (IOException e) {
                        e.printStackTrace();
                }

                System.out.println("Document Store.");
        }

}
// Relational store class
class Relational implements Strategy {
        // table store
        public void Store(String a) {

                try {
                        FileWriter file = new FileWriter("TableStore.txt");
                        file.write(a);
                        file.close();
```

```java
            } catch (IOException e) {
                e.printStackTrace();
            }

            System.out.println("Table Store.");
        }

}
// Graph store class
class Graph implements Strategy {
        // node store
        public void Store(String a) {

                try {
                        FileWriter file = new FileWriter("NodeStore.txt");
                        file.write(a);
                        file.close();
                } catch (IOException e) {
                        e.printStackTrace();
                }

                System.out.println("Node Store.");
        }

}
// driver class
class Client {

        public static void main(String args[]) {

                String a = "Data!";

                setStoreStrategy storestrategy = new setStoreStrategy(new NoSQL());
                storestrategy.executeStore(a);

                storestrategy = new setStoreStrategy(new Relational());
                storestrategy.executeStore(a);

                storestrategy = new setStoreStrategy(new Graph());
```

```
                storestrategy.executeStore(a);
        }

}
```

DocumentStore.txt contents:
Data!

NodeStore.txt contents:
Data!

TableStore.txt contents:
Data!

C.