```java
package application;

import java.sql.Connection;
/**
 * Income  -  stores all the income Transactions into the database;
 * @author lokeshbudda
 *
 */
public class Income extends Transaction implements Presistable {

    private String incomeCatagory;
    public static ArrayList<String> categoryOptions = new ArrayList<String>(List.of("salary", "Side Business", "Gift/Awards"));
    private Statement statement;

    public Income(Date date, String title, Double amount, String type, String description, String userName,
            String incomeCateogry) {
        this.incomeCatagory = incomeCateogry;
    }

    public Income() {

    }
    /**
     * Save - saves all the income transaction into the right columns in the Transaction table
     */
    @Override
    public void save() {
        Connection conn;
        try {
            conn = DriverManager.getConnection("jdbc:mysql://localhost:3306/LoginDatabase", "root", "password");

            PreparedStatement ps = conn.prepareStatement(
                    "INSERT INTO `MYAPP`.`DETAILS` (title, description, subType) VALUES (?, ?, ?)", Statement.RETURN_GENERATED_KEYS);

            ps.setString(1, this.getTitle());
            ps.setString(2, this.getDescription());
            ps.setString(3, this.getIncomeCatagory());
            ps.executeUpdate();
            ResultSet rs = ps.getGeneratedKeys();
            if(rs.next()) {
                int detailId = (int) rs.getLong(1);
                PreparedStatement ps1 = conn.prepareStatement(
                        "INSERT INTO `MYAPP`.`TRANSACTIONS` (transactionDate, fromUser, toUser, amount, detailId) VALUES (?, ?, ?, ?, ?)");

                ps1.setDate(1, this.getDate());
                ps1.setString(2, "NONE");
                ps1.setString(3, this.getUserName());
                ps1.setDouble(4, this.amount);
                ps1.setInt(5, detailId);
                ps1.executeUpdate();
            }
        } catch (SQLException e) {
            // TODO Auto-generated catch block
            e.printStackTrace();
        }
    }
    /**
     * gets all the data from database and reads it.
     */
    @Override
    public Income read() {
        try {
            Connection conn = DriverManager.getConnection("jdbc:mysql://localhost:3306/LoginDatabase", "root", "password");
            PreparedStatement ps = conn.prepareStatement("SELECT Username, Title, Catagory, Description, Date, Amount  FROM LoginDatabase.Income where UserName = ?");
            ArrayList<ExpenseData> tableData = new ArrayList<ExpenseData>();
```

```
74              System.out.println(UserHolder.getInstance().getName());
75
76              ps.setString(1, UserHolder.getInstance().getName());
77              statement = conn.createStatement();
78              ResultSet rs = ps.executeQuery();
79              System.out.println("run");
80              while(rs.next()) {
81
82                  this.title = rs.getString("Title");
83                  this.UserName = rs.getString("Username");
84                  this.incomeCatagory = rs.getString("Catagory");
85                  this.description = rs.getString("Description");
86                  this.date = rs.getDate("Date");
87                  this.amount = rs.getDouble("Amount");
88              }
89
90          } catch (Exception e) {
91              e.printStackTrace();
92          }
93          return this;
94      }
95      //abstract method implementation.
96      @Override
97      public void showTransaction() {
98
99      }
100     //Getters and setters.
101     public String getIncomeCatagory() {
102         return incomeCatagory;
103     }
104
105     public void setIncomeCatagory(String incomeCatagory) {
106         this.incomeCatagory = incomeCatagory;
107     }
108
109     @Override
110     public ArrayList<String> getCategoryOptions() {
111         return this.categoryOptions;
112     }
113
114 }
115
```