**Overview**

This Program reads the date from the MySql database and converts it into the XML file.

Here are the functions written in this assignment:

* **getConnection() Method:** This method establishes the connection with the MySql database and returns the connection object.
* **getCollectorList() Method:** This method is defined in three classes and it collects all the corresponding data from the database and stores it in bean classes.
* **checkProductLine() Method:** This method checks for the existing productLine instance in the product list.

**Files and External data:**

* **File:** The data collected from the database is stored in a file named according to the file name given by the user in input.
* **External data:** The external data is the MySql database used while performing all the operations.

**Classes:**

1. **DataCollectorMain:**

* This class is the main class and it calls getCollectorList method in EmployeeCollector, CutsomerCollector and EmployeeCollector classes to get the data and stores into the bean class called “summary list”.
* This class uses JAXBContext to create its instance using the newInstance method and calls marshaller class to create the XML file for the summary list object.

1. **EmployeeCollector:**

* This class gets the database connection and collects all the data all the employee's first name, last name, city, active customers and total sales.
* After collecting the data, it stores the data into the Employee bean class.

1. **ProductCollector:**

* This class gets the database connection and collects all the data all the product line name and product name, product vendor, unit sold and total sales.
* After collecting the data,it stores the data into the product bean class.

1. **CustomerCollector:**

* This class gets the database connection and collect all the data of all the customer's name, address, number of orders,unit sold and total sales.
* After collecting the data, it stores the data into the customer bean class.

**Data structures Used:**

* The data retrieved from the database is stored in a List of few POJO objects.

**Generating XML:**

* JAXB is used to convert the object into XML file using the process called marshalling.
* Marshaller object is used to call the marshall method which will create the pojo class into the XML file.
* All the data retrieved from database is correctly represented in various pojo class which inturn binds as XML.
* XML annotations are used in every pojo class.
* The object binds in XML based on annotations in every pojo class.