



**CRM and DB analysis**

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Object-oriented programming Java

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## **Introduction**

### **Background of project:**

Our project was designed to analyze customer relationship management data. We took the client database and enter it into PGadmin and output the data using a java virtual machine. In the project, we used several classes, methods to get the analyzed data.

### **Aim of the project:**

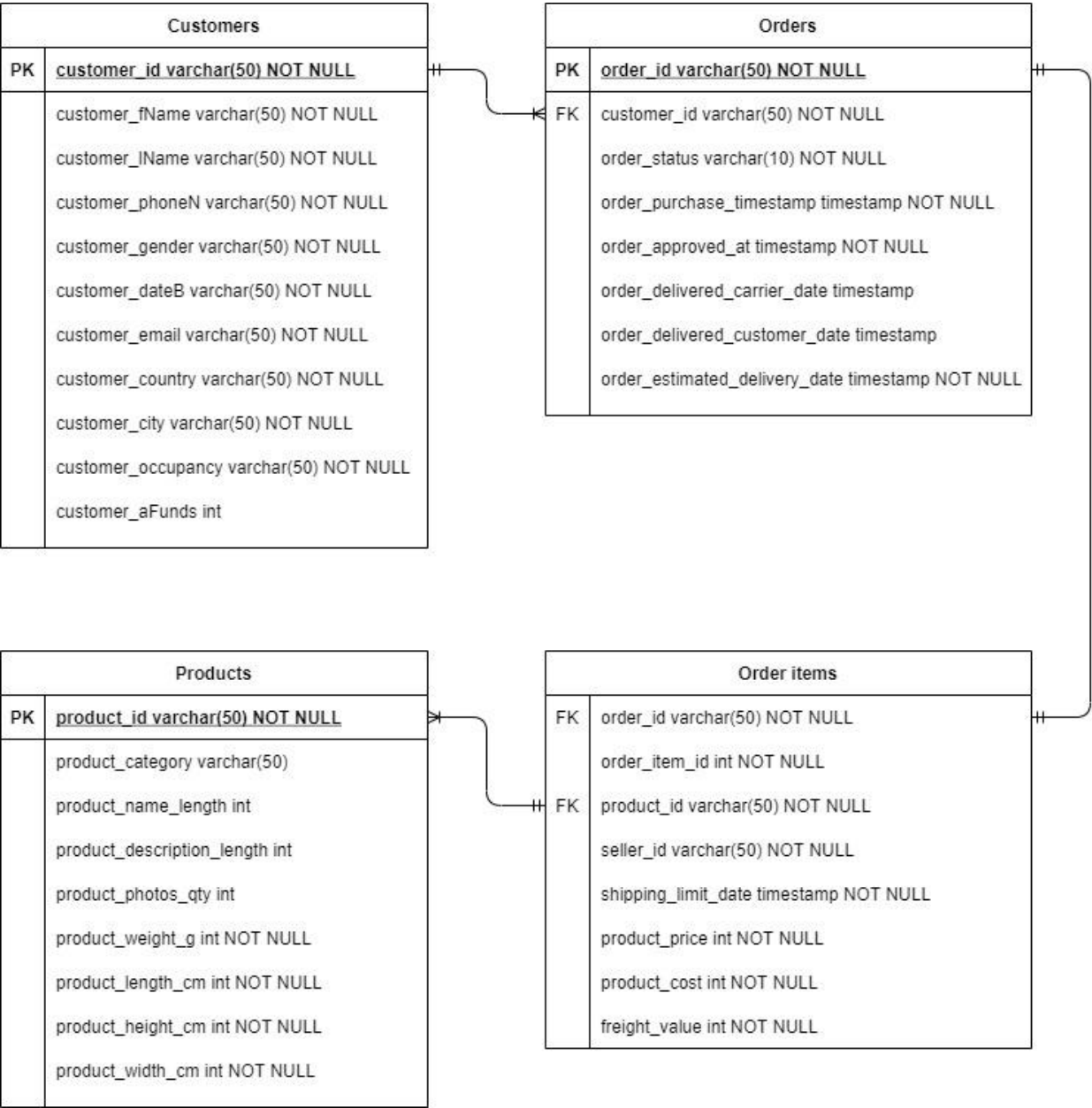
1. Entering data into the Pgadmin database using a java virtual machine.
2. Output the analyzed data from the Pgadmin database using a Java virtual machine.

### **Our roles in the project:**

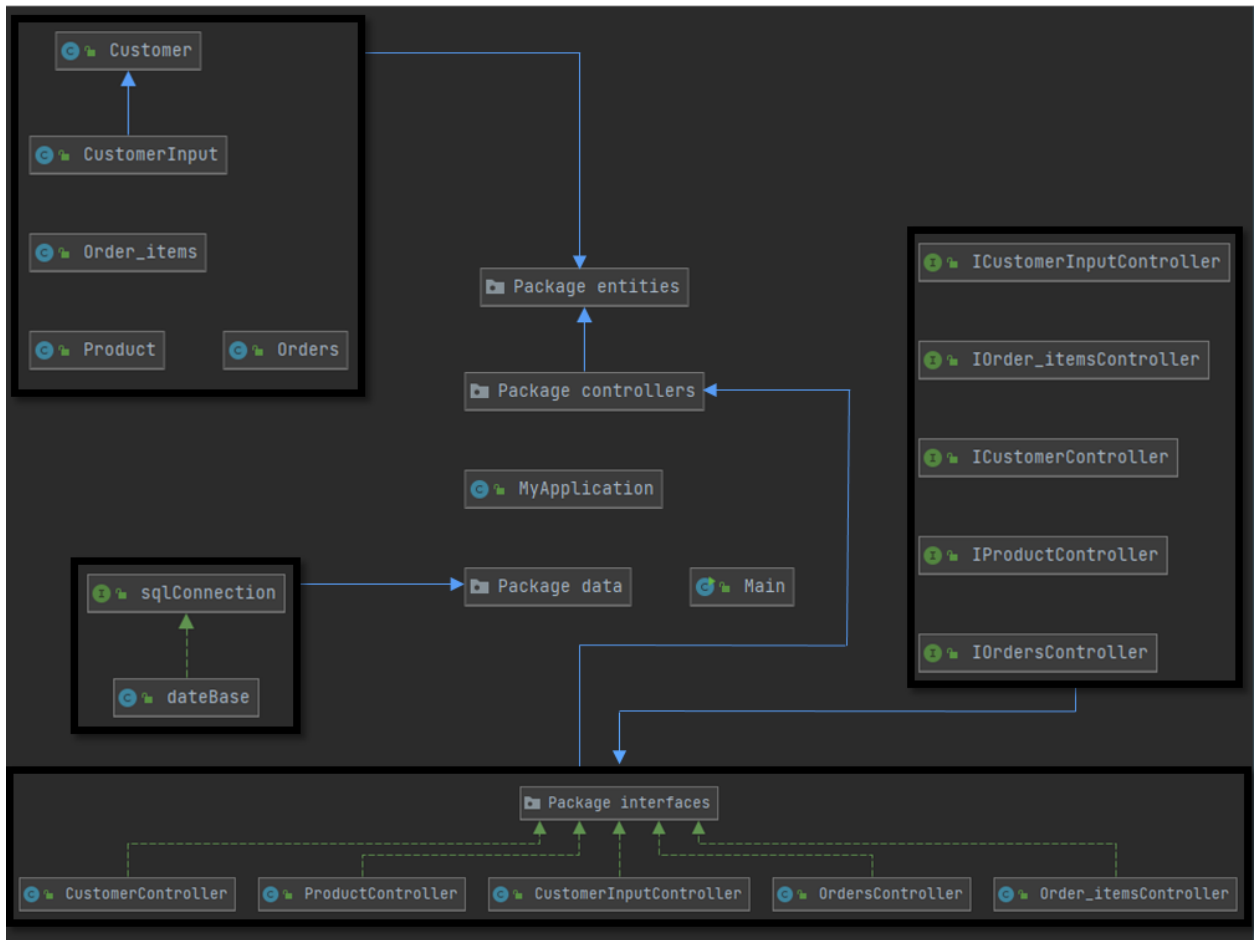
Pernebaev Sanzhar - support for the creation of the project architecture, creation of the main diagram, filling in data in the database, creation of methods for outputting data in a JVM, testing the project.

Shuishbaev Nuruddin - partial creation of the project architecture, support for the creation analyzed methods in the JVM, filling in data in the database, testing the project.

ER Diagram



## Java UML Diagram



Endterm project: CRM Database

## **Description of classes:**

### Class Main

### Class MyApplication

Store different objects and refer to other classes.

Methods: start();

### Class Customer

Store customer related fields (name, gender, etc.) includes several methods.

Methods: Customer\_loop(), showAllDataCustomer(), selectTopAgeGroup(),

Geolocation(), determineOccupancy();

### CustomerInput

Extends the Customer class, provides data entry, consists of one method InputData().

### Class Product

Includes fields related to products (category, number of photos, weight), there are

methods ItemLoop(), letterOfNameDescrip(), massOfProduct();

### Class Orders

Stores order information, includes methods: OrderLoop(), findActiveCustomers(),

showOrderStatus();

### Class Order items

Storing more detailed order information consists of two methods.

Methods: OrderItemLoop(), Top5ExpensiveProducts(), Top5CheapestProducts(),

Top3ExpensiveProductsDate(), Top3CheapestProductsDate(),

calculateFundOfCompany();

Link to github repository:

<https://github.com/Sanzhar357/CRM-project>