

INTERNATIONAL INSTITUTE OF INFORMATION TECHNOLOGY
BANGALORE

DBMS LAB

DBMS PROJECT REPORT

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1 Use Case Diagram

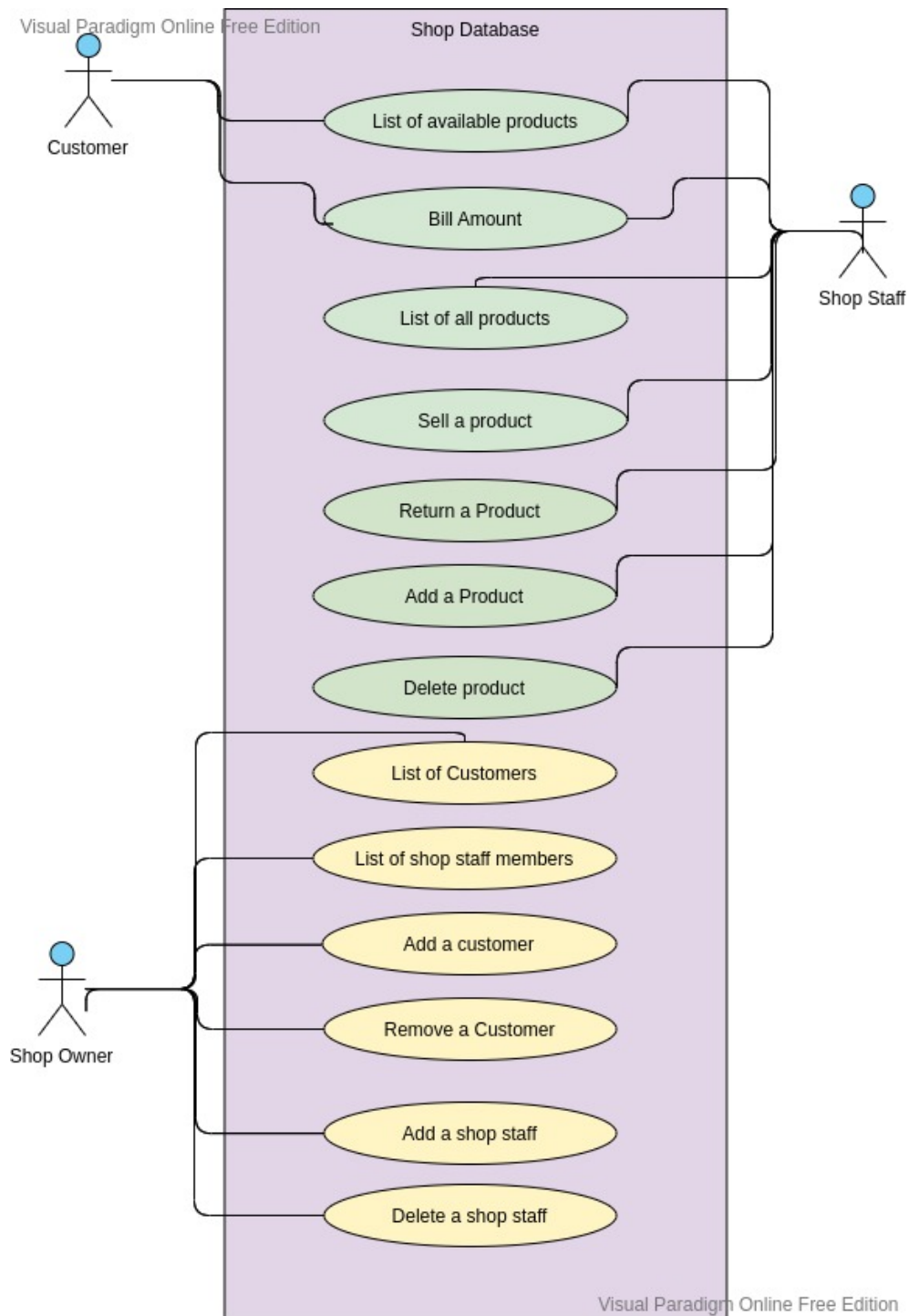


Figure 1: Use Case Diagram of Shop Management System

2 UML Diagram



Figure 2: UML Diagram of Database

3 OR Mapping

Inputs:

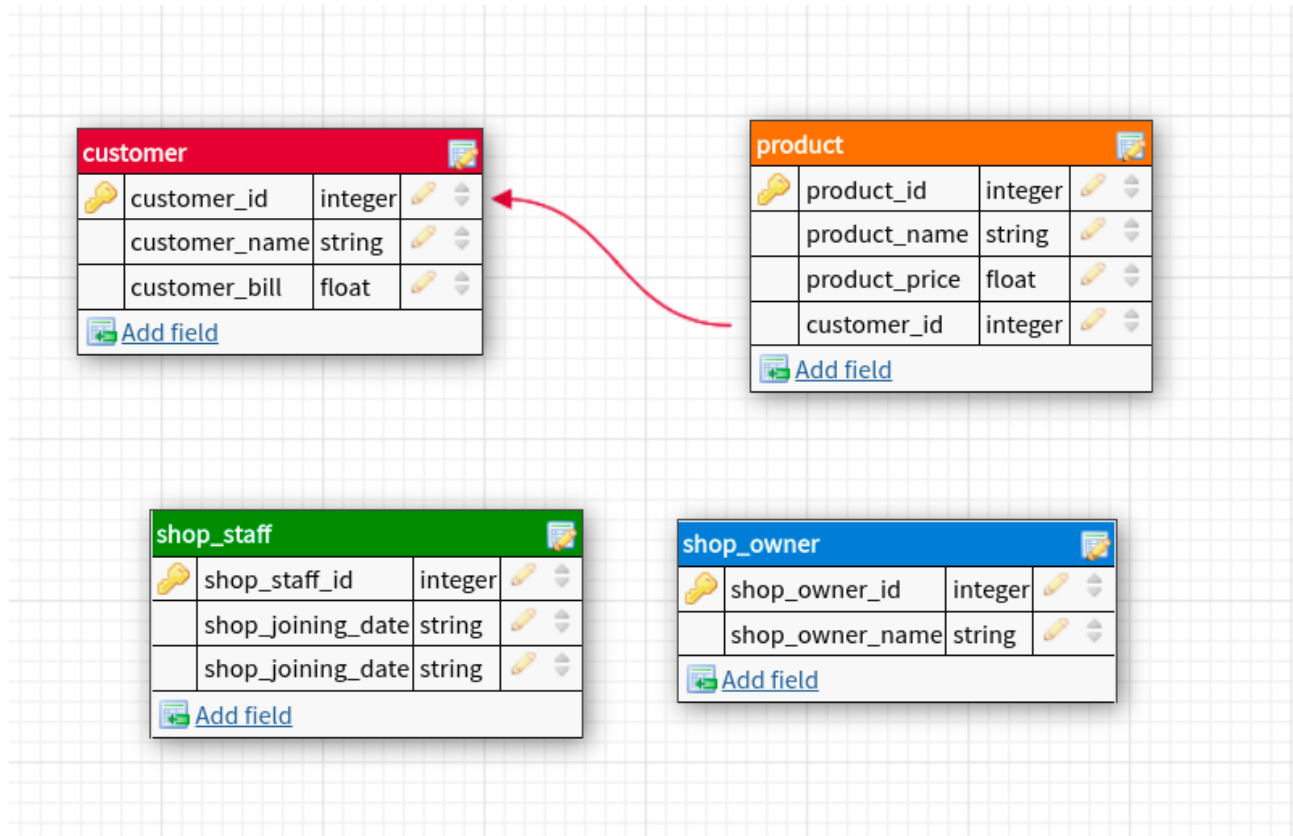


Figure 3: OR Mapping of Database

4 Instructions to Run the Code and Notes

1. First run the 3 .sql scripts (create.sql, alter.sql and insert.sql respectively).
2. Execute the command - export CLASSPATH='path:.' on the terminal.
3. Execute the command - javac JdbcDemo.java
4. Execute the command - java JdbcDemo

5 Output Screenshots

```
+-----+
|      ~~WELCOME TO MYSHOP~~      |
+-----+
|      IMT2020003      |
+-----+
|      Karanjit Saha      |
+-----+
|Please Select an option:|
+-----+
|0.| Exit                |
+-----+
|1.| Customer            |
+-----+
|2.| Shop Staff          |
+-----+
|3.| Shop Owner          |
+-----+

ENTER YOUR CHOICE : █
```

Figure 4: Beginning Screen of the program

```
+-----+
|Please select appropriate option: |
+-----+
|0.| Exit                |
+-----+
|1.| List of available products |
+-----+
|2.| Bill Amount          |
+-----+

ENTER YOUR CHOICE : █
```

Figure 5: Customer menu

```
Enter Customer Id:
1
bread:2022.0
wheat:20000.0
Total : 22022.0
+-----+
|Please select appropriate option: |
+-----+
|0.| Exit                           |
+-----+
|1.| List of available products    |
+-----+
|2.| Bill Amount                   |
+-----+

ENTER YOUR CHOICE : 
```

Figure 6: list of products

```
Enter Customer Id:
1
bread:2022.0
wheat:20000.0
Total : 22022.0
+-----+
|Please select appropriate option: |
+-----+
|0.| Exit                           |
+-----+
|1.| List of available products    |
+-----+
|2.| Bill Amount                   |
+-----+

ENTER YOUR CHOICE : 
```

Figure 7: Bill amount

```
+-----+
|Please select appropriate option:  |
+-----+
|0.| Exit                          |
+-----+
|1.| List of all products          |
+-----+
|2.| List of products presently in shop|
+-----+
|3.| Sell a product               |
+-----+
|4.| Return a product             |
+-----+
|5.| Add a product               |
+-----+
|6.| Delete a product            |
+-----+

ENTER YOUR CHOICE : 
```

Figure 8: Shop Staff Menu

```
BUYER HAS BEEN UPDATED SUCCESFULLY!!

+-----+
|Please select appropriate option:  |
+-----+
|0.| Exit                          |
+-----+
|1.| List of all products          |
+-----+
|2.| List of products presently in shop|
+-----+
|3.| Sell a product               |
+-----+
|4.| Return a product             |
+-----+
|5.| Add a product               |
+-----+
|6.| Delete a product            |
+-----+

ENTER YOUR CHOICE : 
```

Figure 9: Sell product

```
Product has been returned!!

+-----+
|Please select appropriate option: |
+-----+
|0.| Exit |
+-----+
|1.| List of all products |
+-----+
|2.| List of products presently in shop|
+-----+
|3.| Sell a product |
+-----+
|4.| Return a product |
+-----+
|5.| Add a product |
+-----+
|6.| Delete a product |
+-----+

ENTER YOUR CHOICE : █
```

Figure 10: Return product

```
Product has been added successfully!!

+-----+
|Please select appropriate option: |
+-----+
|0.| Exit |
+-----+
|1.| List of all products |
+-----+
|2.| List of products presently in shop|
+-----+
|3.| Sell a product |
+-----+
|4.| Return a product |
+-----+
|5.| Add a product |
+-----+
|6.| Delete a product |
+-----+

ENTER YOUR CHOICE : █
```

Figure 11: Add product


```

Product has been deleted successfully!!

+-----+
|Please select appropriate option: |
+-----+
|0.| Exit                          |
+-----+
|1.| List of all products          |
+-----+
|2.| List of products presently in shop|
+-----+
|3.| Sell a product               |
+-----+
|4.| Return a product             |
+-----+
|5.| Add a product                |
+-----+
|6.| Delete a product             |
+-----+

ENTER YOUR CHOICE : █

```

Figure 12: Delete product

```

+-----+
|Please select an appropriate option: |
+-----+
|0.| Exit                          |
+-----+
|1.| List of Customers            |
+-----+
|2.| List of Shop staff members   |
+-----+
|3.| Add a Customer              |
+-----+
|4.| Remove a Customer           |
+-----+
|5.| Add a Shop staff            |
+-----+
|6.| Delete a Shop staff         |
+-----+

ENTER YOUR CHOICE : █

```

Figure 13: Shop Owner Menu

```
List of customers:
Customer Id : 1
Customer Name : Karan

+-----+
|Please select an appropriate option: |
+-----+
|0.| Exit                             |
+-----+
|1.| List of Customers                |
+-----+
|2.| List of Shop staff members       |
+-----+
|3.| Add a Customer                   |
+-----+
|4.| Remove a Customer                |
+-----+
|5.| Add a Shop staff                 |
+-----+
|6.| Delete a Shop staff              |
+-----+

ENTER YOUR CHOICE : █
```

Figure 14: List of customers

```
List of Shop Staff members:
Staff Id : 1
Staff Name: KJ

+-----+
|Please select an appropriate option: |
+-----+
|0.| Exit                             |
+-----+
|1.| List of Customers                |
+-----+
|2.| List of Shop staff members       |
+-----+
|3.| Add a Customer                   |
+-----+
|4.| Remove a Customer                |
+-----+
|5.| Add a Shop staff                 |
+-----+
|6.| Delete a Shop staff              |
+-----+

ENTER YOUR CHOICE : █
```

Figure 15: List of shop staff members

```
Customer has been added successfully!!

+-----+
|Please select an appropriate option: |
+-----+
|0.| Exit                               |
+-----+
|1.| List of Customers                 |
+-----+
|2.| List of Shop staff members       |
+-----+
|3.| Add a Customer                   |
+-----+
|4.| Remove a Customer                |
+-----+
|5.| Add a Shop staff                 |
+-----+
|6.| Delete a Shop staff              |
+-----+

ENTER YOUR CHOICE : 
```

Figure 16: Add a customer

```
Customer has been deleted successfully!!

+-----+
|Please select an appropriate option: |
+-----+
|0.| Exit                               |
+-----+
|1.| List of Customers                 |
+-----+
|2.| List of Shop staff members       |
+-----+
|3.| Add a Customer                   |
+-----+
|4.| Remove a Customer                |
+-----+
|5.| Add a Shop staff                 |
+-----+
|6.| Delete a Shop staff              |
+-----+

ENTER YOUR CHOICE : 
```

Figure 17: Remove a customer

```
Staff has been added successfully!!

+-----+
|Please select an appropriate option: |
+-----+
|0.| Exit                             |
+-----+
|1.| List of Customers                |
+-----+
|2.| List of Shop staff members       |
+-----+
|3.| Add a Customer                   |
+-----+
|4.| Remove a Customer                |
+-----+
|5.| Add a Shop staff                  |
+-----+
|6.| Delete a Shop staff               |
+-----+

ENTER YOUR CHOICE : 
```

Figure 18: Add a shop staff member

```
Staff has been deleted successfully!!

+-----+
|Please select an appropriate option: |
+-----+
|0.| Exit                             |
+-----+
|1.| List of Customers                |
+-----+
|2.| List of Shop staff members       |
+-----+
|3.| Add a Customer                   |
+-----+
|4.| Remove a Customer                |
+-----+
|5.| Add a Shop staff                  |
+-----+
|6.| Delete a Shop staff               |
+-----+

ENTER YOUR CHOICE : 
```

Figure 19: Remove a shop staff

```
+-----+  
|Thank you for visiting us!!, Have a nice day!!|  
+-----+  
|                                           ~MYSHOP|  
+-----+  
(base) karanjitsaha@pop-os:~/Desktop/INT2020003_DBMS_PROJECT$
```

Figure 20: Ending screen