Lab-6 (SDC)

Submitted by:

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Part1:

- 1. Executed the command "use csci390;" in the workbench to access the class database.
- 2. Executed the command "show table;" and list of tables found is:
 - **a.** categories
 - **b.** customercustomerdemo
 - c. customerdemographics
 - **d.** customers
 - e. employees
 - **f.** employeeterritories
 - g. orderdetails
 - **h.** orders
 - i. products
 - **j.** region
 - **k.** sample5
 - I. sample6
 - **m.** shippers
 - **n.** suppliers

- o. territories
- **p.** zz_course
- **q.** zz_person
- r. zz_registration

3. Execute queries

a.Select * from orders where OrderID = 10260;

| No. | Col Name | Col Value |
|-----|----------------|--------------------|
| 1 | OrderID | 10260 |
| 2 | CustomerID | OTTIK |
| 3 | EmployeeID | 4 |
| 4 | OrderDate | 1996-07-19 |
| 5 | RequiredDate | 1996-08-16 |
| 6 | ShippedDate | 1996-07-29 |
| 7 | ShipVia | 1 |
| 8 | Freight | 55.0900 |
| 9 | ShipName | Ottilies Kseladen |
| 10 | ShipAddress | Mehrheimerstr. 369 |
| 11 | ShipCity | Kln |
| 12 | ShipRegion | NULL |
| 13 | ShipPostalCode | 50739 |
| 14 | ShipCountry | Germany |
| | | |

b. Select * from orderdetails where OrderID = 1026;

| OrderID | ProductID | UnitPrice | Quantity | Discount |
|---------|-----------|-----------|----------|----------|
| 10260 | 41 | 7.7000 | 16 | 0 |
| 10260 | 57 | 15.6000 | 50 | 0 |
| 10260 | 62 | 39.4000 | 15 | 0 |
| 10260 | 70 | 12.0000 | 21 | 0 |

c. Select ProductID, ProductName, CategoryID from products where ProductID = 41 or ProductID = 57;

| ProductID | ProductName | CategoryID |
|-----------|---------------------------------|------------|
| 41 | Jack's New England Clam Chowder | 8 |
| 57 | Ravioli Angelo | 5 |

d. Select customers.CustomerID, CompanyName from orders, customers where OrderID = 10260 and orders.customerID = customers.CustomerID;

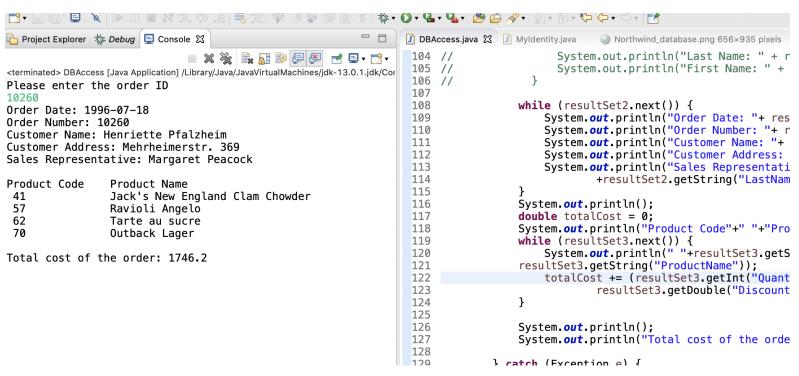
| CustomerID | CompanyName |
|------------|-------------------|
| OTTIK | Ottilies Kseladen |

Part 2:

Two Queries added for part 2.

Query 1: Select OrderDate,orders.OrderID,customers.CustomerID, customers.ContactName, customers.Address, employees.EmployeeID, FirstName, LastName from orders, employees, customers where OrderID = \$userInput and orders.customerID = customers.CustomerID and orders.EmployeeID = employees.EmployeeID;

Query 2: Select products.ProductID, products.ProductName, orderdetails.UnitPrice, Quantity, Discount from products, orderdetails where orderdetails.OrderID = \$userInput and orderdetails.ProductID = products.ProductID;



Part 3:

Plan on how you could test the correctness of your program from Part 2

- First check if connection is established or not, handle the connection error.
- As order Id is integer, make sure user enters int value
- For query1 make sure that query syntax is correct
- Handle null result set
- Handle error if query 1 is not successful
- For query2 make sure that query syntax is correct
- Handle null result set2
- Handle error if query 2 is not successful
- Check if connection is closed at the end