

CSCI 3901

Software Development Concepts



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Lab 7: “MYSQL Connection”

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Part - 01

Use the command “show tables

- Following table is the output of show tables:

Tables_in_csci3901
'MamiCustomers'
'categories'
'customercustomerdemo'
'customerdemographics'
'customers'
'employees'
'employeeterritories'
'orderdetails'
'orders'
'products'
'region'
'sample5'
'sample6'
'shippers'
'suppliers'

Report the outcome of the following SQL statements:

- (a) Select * from orders where OrderID = 10260;

OrderID	10260
CustomerID	OTTIK
EmployeeID	4
OrderDate	1996-07-16
RequiredDate	1996-08-16
ShippedDate	1996-07-29
ShipVia	1
Freight	55.0900
ShippName	Ottilies Kseladen
ShipAddress	Mehrheimerstr. 369
ShipCity	Kln
ShipRegion	Null
ShipPostalCode	50739
ShipCountry	Germany

(b) Select * from orderdetails where OrderID = 10260;

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 - Java connection

Create a program that will ask for an order number from the user and will show the order information on the screen as an invoice. The invoice should include:

(a) The order date and order number

(b) The customer name and address

(c) The product codes and quantities ordered

(d) The total cost of the order

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Main x
"C:\Program Files\Java\jdk1.8.0_271\bin\java.exe" ...
Please Enter Order Number to generate receipt
10260
Your generated receipt is:

Order Date: 1996-07-19
Order Number: 10260
Customer Name: Henriette Pfalzheim
Customer Address: Mehrheimerstr. 369

Description of Items ordered:

Product Code    Quantity
41              16
57              50
62              15
70              21

Final price: 1746.199951
```

Part – 03

Question

How could you test the correctness of your program from Part 2?

- To check the correctness of the program in part 2, one can test every query called on the program in the MYSQL Workbench application and check if the output matches with the output of the program.