

# Digital Training – Coding Assessment

Version: 1.0 | Date:2/3/2022

## Coding Assessment



MySQL – Query assessment



Java – Coding assessment



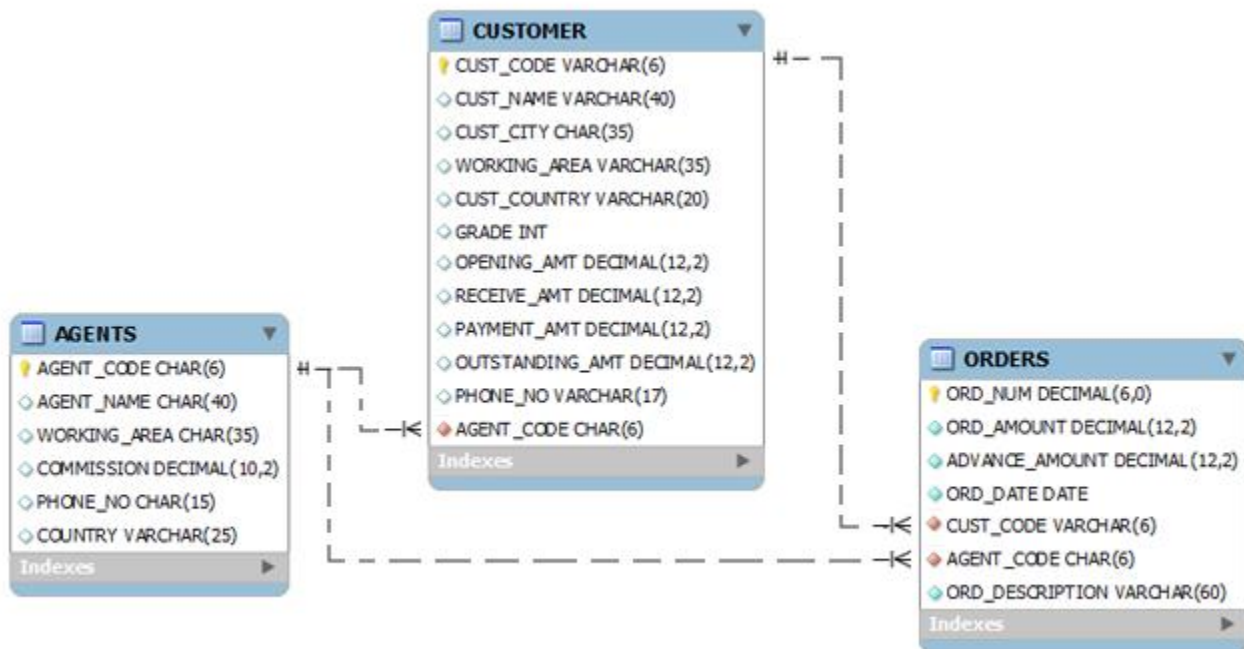


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## Point of Sale system



## DDL & DML Scripts



ddl.txt



dml.txt



Questions:

1. Write a query to display the order details placed by a customer , and the commission received by the agent towards it.
2. Modify query 1, to display the agentID , which is a combination of agent\_code and agent\_name, also compute the totalsalary (computed field) of the agent assuming the basic salary is 10000
3. Identify the customer who has made the purchase of the costliest order, also print the agent details associated with that order.
4. Categorize the orders based on the agent and display orders where order amount exceeds 3000
5. Display the details of the customers and agents belonging to the same country





## 2. Java Coding      Duration: 1.5 hrs

### BUS BOOKING SYSTEM

Build a Bus Booking System application were,

- ✓ Passenger can, view available bus details
- ✓ Passenger can, reserve seats in bus
- ✓ Passengers can avail discount of 10% for booking more than 5 seats

Bus Id	Source	Destination	Price	Seats Available
111	Chennai	Bangalore	2000	22
222	Mumbai	Pune	1500	28
333	Chennai	Hyderabad	1000	10

### Validations:

- ✚ Book seats, when the valid bus id is entered and display the following message for invalid bus id,  
"Booking is not success, due to incorrect bus id"
- ✚ Book seats, when the seat number is 1 or more and display the following message for invalid seat number  
"Choose seats for booking!!!!!!"
- ✚ If the number of seats is more than 5 then, discount of 10% is given

### Execution:

#### Screen 1

**Discount of 10% for seats more than 5 and for a valid bus id**

```
Bus ID Boarding Destination price No Of Seats
-----
111 Chennai Bangalore 2000 22
222 Mumbai Pune 1500 28
333 Chennai Hyderabad 1000 10
Enter bus Id:
111
```





Enter boarding point:  
Chennai  
Enter Destination point:  
Bangalore  
Enter cost of a seat:  
2000  
  
Enter no of seats:  
6  
Discount is:1200  
Total to Pay: 10800

## Screen 2

**No discount should be availed for no. of seats less than 5**

Bus ID	Boarding	Destination	price	No Of Seats
111	Chennai	Bangalore	2000	22
222	Mumbai	Pune	1500	28
333	Chennai	Hyderabad	1000	10

Enter bus Id:  
222  
Enter boarding point:  
Mumbai  
Enter Destination point:  
Pune  
Enter cost of a seat:  
1500  
Enter no of seats:  
3  
Discount is:0  
Total to Pay: 4500

## Screen 3

**Display error message for incorrect seat number**

Bus ID	Boarding	Destination	price	No Of Seats
111	Chennai	Bangalore	2000	22
222	Mumbai	Pune	1500	28
333	Chennai	Hyderabad	1000	10

Enter bus Id:



```
333
Enter boarding point:
Chennai
Enter Destination point:
Hyderabad
Enter cost of a seat:
1000
Enter no of seats:
0
Choose seats for booking!!!!!!
```

## Screen 4

### Display error message for incorrect bus id

```
Bus ID Boarding Destination price No Of Seats
-----
111 Chennai Bangalore 2000 22
222 Mumbai Pune 1500 28
333 Chennai Hyderabad 1000 10
Enter bus Id:
123
Enter boarding point:
Chennai
Enter Destination point:
Bangalore
Enter cost of a seat:
2000
Enter no of seats:
3
Booking is not success, due to incorrect bus id
```

## Technology Implementation:

```
class Bus{

    private int busId;

    private String boarding;
    private String destination;
    private int price;
    private int noOfSeats;
    //constructor
    //getters & setters
}
```



```
class Booking{
    public void busDetails(){
        //create a collection class and store bus details
    }
    public void bookSeats(int busId, String boarding,String
destination,int price,int noOfSeats){
        //calculate discount
    }}
public class BusBooking {
    public static void main(String[] args) {
        Scanner sc=new Scanner(System.in);
        //create object and call the methods
    }
}
```

**Mark distribution:**

Java Coding - 50		
<b>Classes &amp; Methods Definition - 10</b>	<b>Business logic implementation - 30 [Each validation, 10 marks]</b>	<b>Execution - 10</b>