HEXAWARE

# Digital Training – Coding Assessment

**Version: 1.0  |  Date:8/3/2022**

## Coding Assessment

- MySql – Query assessment

- Java – Coding assessment

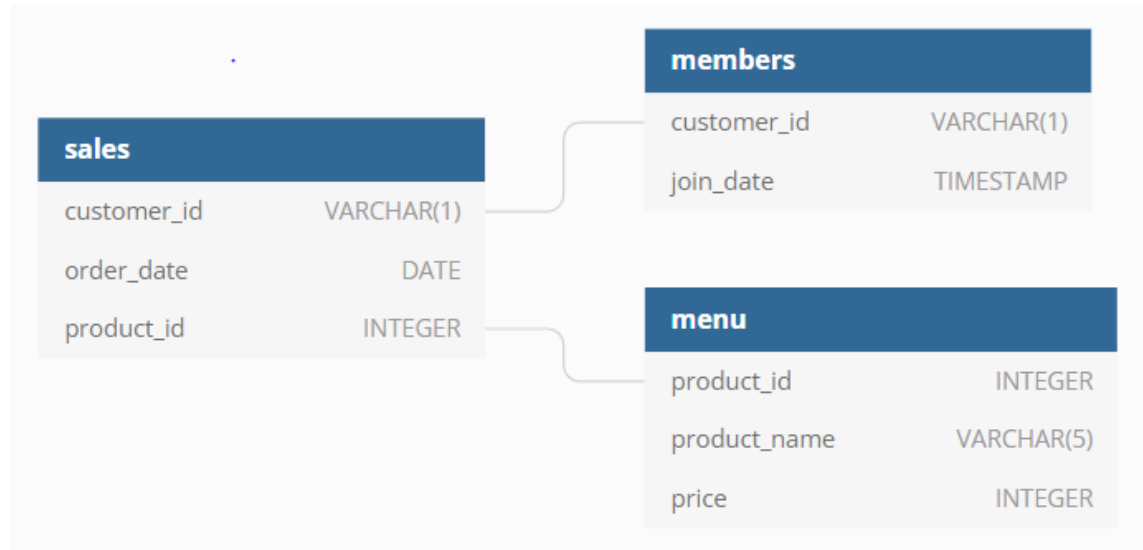www.hexaware.com

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# 1 MYSQL – Query writing

**Duration: 1 hr**

## Restaurant management system

| sales | |
|---|---|
| customer_id | VARCHAR(1) |
| order_date | DATE |
| product_id | INTEGER |

| members | |
|---|---|
| customer_id | VARCHAR(1) |
| join_date | TIMESTAMP |

| menu | |
|---|---|
| product_id | INTEGER |
| product_name | VARCHAR(5) |
| price | INTEGER |

DDL & DML Scripts

ddl.sql     dml.sql

Questions: [ Each query 10 marks]

1. Write a query to display the customer_id, order date, join date , product name , product price . Display the result by sorting them based on customerid.

2. Write a query to display the order details which are placed after January 15 2021.

3. Find the customers who has ordered the costliest product in the restaurant.

4. Write a query to display the customerid of the customers who have ordered more than 4 times.

5. Write a query to display the customer_id, product name and price when the product is curry.

### PF Calculator

ABC is a multinational company , they have their clients across 100 locations in India. The main office at Delhi wants to persist the pf details of the employee who has been working as full time ( FullTimeEmployee),so that it would be easy to claim the PF online. Help them to calculate pf.

Create a public class Employee with the following private variables:

- String name
- float salary
- String address
- Int id
- Float netsalary

Write the necessary public getters and setters.

Create a public class FullTimeEmployee (which should inherit Employee) with the following private varibles:

- float pfpercentage
- float pfamount

Write the necessary public getters and setters.

Implement a method **double calculateNetSalary()** in the FullTimeEmployee class which calculates pfamount and deduct it from the salary to find the net salary and set the pf amount and netsalary to the attribute.
Salary should not be less than or equal to zero and pf % should be a valid positive number,it can be zero.

Ensure the values given meet the criteria using the method **boolean validateInput(),** which has to be defined inside the class FullTimeEmployee. Check for the salary and pf percentage validity.  If valid, return true.  Else, return false.
Create a class Main and write the main method.

In the main method, before invoking the **calculateNetSalary** method, validate the input by invoking the validateInput method.  If the input is invalid display error message as "Error!!!  Unable to calculate the NetSalary." else display the net salary as shown in the sample.

**Sample Input 1:**
Enter the name:

Sudha
Enter the salary:
20000
Enter the pfpercentage:
7.5
**Sample Output 1:**
Employee Name:Sudha
PF Amount:1500.00
Netsalary:18500.00


**Sample Input 2:**
Enter the name:
Polson
Enter the salary:
25000
Enter the pfpercentage:
-1.5


**Sample Output 2:**
Error!!! Unable to calculate the NetSalary.


**Mark Distribution:**

| MySql Query - 50 | | | | | Java Coding - 50 | | |
|---|---|---|---|---|---|---|---|
| Query1 -10 | Query2 - 10 | Query3 - 10 | Query4 - 10 | Query5 - 10 | Classes & Methods implementation - 10 | Business logic implementation - 20 | Execution - 20 |