**PSG College of Technology - Coimbatore**

**Department of Computer Applications**

**I MCA – Relational Database Management System – Hands on Session 3**

**Issue Date: 20/10/2022 Submission Date: 30/10/2022**

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| Table - I ( EMPLY ) | | |
| |  |  |  |  |  | | --- | --- | --- | --- | --- | | **Data for Client\_Master** | | | | | | **Empcode** | **Empname** | **Address** | **Age** | **Dept\_Code** | | E101 | Anjaly | Anjaly Nivas, Thiruvalla | 25 | D301 | | E102 | Bobby | Alapuzha | 28 | D305 | | E103 | Aravind | Chennai | 31 | D305 | | E104 | Lakshmi | Mannar | 55 | D707 | | E105 | Daisy | Chaithram, Angamaly | 35 | D707 | | E106 | Esha | Mumbai | 23 | D707 | | E107 | Georgy | Pala | 45 | D909 | | E108 | Prakash | Vennikulam | 36 | D110 | | E109 | Madhavan | Mynakum, Kottayam | 46 | D202 | | E110 | Anugraha | Aparna, Angamaly | 47 | D301 | | E111 | Deva | Trichy | 38 | D301 | | E112 | Saju | Dhanya, Ernakulam | 27 | D202 | | E113 | Priyesh | Priya Nivas, Kottayam | 26 | D302 | | | |
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| Table - II ( PAYSLIP ) | |
| |  |  |  |  | | --- | --- | --- | --- | | **Data for Sale\_Order** | | | | | **Empcode** | **Basic** | **HRA** | **DA** | | E101 | 4000 | 1900 | 1500 | | E102 | 4500 | 2200 | 2000 | | E103 | 5000 | 2800 | 2200 | | E104 | 7000 | 3000 | 2700 | | E105 | 3000 | 1500 | 1200 | | E106 | 5700 | 3000 | 2900 | | E107 | 6200 | 3300 | 3000 | | E108 | 5700 | 3700 | 3000 | | E109 | 7500 | 4660 | 545 | | E110 | 5000 | 300 | 100 | | E111 | 6000 | 200 | 120 | | |
| |  | | --- | | Table - II ( DEPT ) | | |  |  | | --- | --- | | **Data for Department** | | | **DEPTCODE** | **DEPTNAME** | | D301 | Sales | | D302 | Account | | D707 | Research | | D909 | Advertising | | D202 | Stock | | D110 | Computer | | D305 | Marketing | |   **Write SQL commands for the following:** | |
| **1.** | **Update table EMPLY, add 15 years of age to employee with EMPCODE 'E107'.** |
| **2.** | **Create a view which shows details of employees whose age is between 35 and 45.** |
| **3.** | **Retrieve empcode, empname, address, Netpay from EMPLY and PAYSLIP. Display in ascending order of empcode.** |
| **4.** | **Create an English like sentence to display the following output from payslip table. "Employees with empcode E101 draws a basic salary 4000".** |
| **5.** | **List the names and address of employees drawing a basic salary between 5000 and 7000.** |
| **6.** | **Add new column Total\_Sal in the PAYSLIP table and display all details including total salary for Employees with Empcode > E107.** |
| **7.** | **Display records from EMPY1 table for employees whose age is between 25 and 45.** |
| **8.** | **Retrieve the Deptcode and total no of employees in each department.** |
| **9.** | **Retrieve empcode, empname, address, deptcode for all employees in "account" and "stock" departments.** |
| **10.** | **Display average, maximum and minimum age of employees.** |
| **11.** | **Delete all records belonging to research department in the EMPY1 table.** |
| **12.** | **List details of employee with empcode 'E105'.** |
| **13.** | **Count the number of employees whose age is less than 45.** |
| **14.** | **Compute NET SALARY (Netsal = Basic + HRA +DA) for employees in the Payslip table.** |
| **15.** | **Give the employee with empcode 'E110' a bonus of 15% of Basic and update the value held in column Netsal.** |
| **16.** | **Display Name, Address, Empcode, Net salary, & age from EMPLY and PAYSLIP tables respectively.** |
| **17.** | **Retrieve all information from EMPLY table for employees whose Basic Salary is more than 6000.** |