**CENTRE FOR DEVELOPMENT OF ADVANCED COMPUTING**



**Advanced Computing Training School**

**Course Name:** e- Diploma in Advanced Computing

**Batch:** March 2022

**Module Name:** Database Technologies Lab Exam

**Student Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Max Marks: 40 Marks**

**PRN No: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Duration: 2 Hours**

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Section 1: (10 marks – each for 1 mark)

1. Display all employees who are active.
2. Display all employees who are having any type of cards. (Use emp and emp\_cards table)
3. List the employees whose comm is null and salary does not exceed 3000.
4. Display the deptno where least number of employees are working.
5. Display Name, Job & Sal for all Employees whose job is Clerk or Analyst and their Sal is not equal to 1000, 3000 & 5000.
6. Find the difference of total for order 'Shipped' and order 'Cancelled' (Use ord table)
7. Display the first word from `user name` column for all the employees.
8. Display all the active employees.
9. Display the employee’s name with his managers’ name
10. Display all employees whose salary is more than ' MARTIN' salary.

Section 2: (30 marks – each for 15 mark)

* Create a deptLOG table having following columns (id (auto\_increment), cDate, cTime, message, deptno, dname, loc and pwd). Write a trigger (named insertDEPT) on DEPT table, that as when we INSERT a record in DEPT table the same record should get duplicated (INSERTED) in deptLOG table.
* Pass DEPTNO to the function (named sumSalary) and calculate the sum of salary for the employees. If the entered deptno is not present then print message “Department not found!”.

**Evaluation of Lab Exam should be based on the following criteria**

|  |  |  |  |
| --- | --- | --- | --- |
| **Criteria** | **Details** | **Max**  **Marks** | **Marks**  **Obtain** |
| **Algorithm** | **Documentation of Algorithm and Flowchart** | **2** |  |
| **Program adheres to the algorithm and flowchart** | **2** |  |
| **Efficiency** | **Program is using only the required number of variables**  **/conditions/loops/pointers etc and is optimal** | **2** |  |
| **Correctness** | **The program produces desired output for a given input** | **25**  **5** |  |
| **The program handles all valid and Invalid inputs** |  |
| **Software**  **Engineering**  **Principles** | **The program has meaning variable/function names** | **2** |  |
| **The program is commented properly (At least 20% of the**  **code should be commented)** | **2** |  |
|  | ***Total Marks*** | **40** |  |
| cccccccc |  |  |  |

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**Signature of Student** **Signature of Evaluator** **Signature of Coordinator**

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