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**Course Code**: 16ITC22

**Subject**: DATABASE SYSTEMS LAB

**Time**: Duration of End Examination 3 Hours

**Marks**: Semester End Examination 50 Marks

**Continuous Evaluation**: CIE 25 Marks

**Credits**: 2

**SQL QUERIES AND TABLE CREATION**

1. **Medical Database**, table creation and queries include:
2. List the medicine details manufactured by Dexovan.
3. List the medicines, which are sold in the month of February.
4. List the medicine details related to highest paid bill.
5. List the medicines whose validity is more than two years.
6. List the medicine name, bill amount, bill date for bill number 1205.
7. List the medicine supplied by dealer D3.
8. List the medicine name of minimum selling medicine.
9. **Banking database**, table creation and queries include:
10. List the interest earned by customer per annum in the FD scheme that is continued for10 years along with the FD account number.
11. List the youngest male customer of Chennai city.
12. List the year wise opening status of saving account.
13. List the bank deposit schemes opened between year 2002 and 2006.
14. List the interest earned by customer per annum in the RD scheme that is continued for 5 years along with the RD account number.
15. List the loan account number, tenure, interest earned by the bank for a home loan that has lasted for longest tenure.
16. Lit the account number , loan type of the loans in which the tenure is 10 years or more.
17. List the deposit account details of the youngest customer of Kolkata.
18. **Publication Management Database**, table creation and queries include:
19. List the name of the book published from a city having maximum number of publishers.
20. List the name of the books written by the author whose name ends with charater “m”.
21. List the publisher of the boo “ data compression”
22. Count the total number of books published by “bpb”
23. List the book name of those publishers who belong to “delhi”
24. List the name of the publisher who has published maximum number of books.
25. List the name of the book, which is published by the published=r of “linux” for “u”.
26. **Training Management System Database**, table creation and queries include:
27. List the course, which is done by more than one student.
28. List the projects, which is done by more than one student.
29. List the student details wo has done course at SQL STAR.
30. List the project details executed by ‘harish’
31. List the student name who has don the costliest course.
32. List the course conducted by more than one institute.
33. List the student details who has done more than one course.
34. **Transport Management System Database**, table creation and queries include:
35. List the name, seat number of female passengers travelling to “HAZARIBAG”
36. List the bus details in which senior citizens are travelling.
37. List the female passengers who have planned to travel on “15-dec-2006’
38. List the age, destination and booking date of passenger “pranab”.
39. List the male passengers who are travelling in “super deluxe”.
40. List the passengers who are travelling by those buses which are starting from bus depot “dep01”.
41. List the total fare earned from the bus running between tata and patna.
42. **Employee Information System Database**, table creation and queries include:
43. List the employee name, department name in which a female employee having btech qualification is working.
44. List the employee name, department name, skill qualification o the employee who is getting minimum salary.
45. List the qualification of the hod of information department.
46. List the employee number, department number, qualification code and skill code of the youngest male employee.
47. List the employee name, department name of the employee whose employee code starts with the letter ‘g”, has served maximum number of years in the organization and having the skill of “programmer”.
48. List the employee name who belongs to “admin” department an having skill in “administration”
49. List the name of female employees who are bsc degree holder and having age more than 20 years.
50. **Sales tracking database**, table creation and queries include
51. List the representative working in “dgl food products”.
52. List the representative who are selling the similar product of different companies
53. List the commission earned by selling product p1.
54. List the representative name, company name, product name and sale of product whose commission is minimum.
55. List the income of that representative who is drawing maximum salary (imcome=salary+commission \* quantity sold)
56. List the product sold by the representative Ashok.
57. List the representative selling only one product.

**Pl/sql programs**

**Basic Programs:**

1. Write a plsql program to add two numbers.
2. Write a pl sql program to find the prime number.
3. Write a pl sql program for Fibonacci series.
4. Write a pl sql program to find the palindrome of number.
5. Write a pl sql program to form the specified pattern ( 5 variants.)

**Programs on Procedures:**

1. Write a procedure in pl sql to insert and delete a record in a table.
2. Write a procedure in pl sql to update salry of employee using sq update statement.

**Programs on Functions:**

1. write a function for adding two numbers in pl sql.
2. Write a function for returning max of two numbers in pl sql.
3. Write a function (table) to return the total number of customers.
4. Write a recursive function to find the factorial of a number.

**Implicit Cursors**:

1. Write an implicit cursor in pl sql to increase the salary of each customer by 5000.

**Explicit Cursors:**

1. Write an explicit cursor to retrieve the customer name and address.

**Triggers:**

1. Create a customer tables (name, age, address, salary), create a row level trigger for customer table that would fire for insert, update or delete operation performed on the customer table. Trigger will display the salary difference between old and new value.

……………………………………ALL THE BEST………………………………………….