# Computer Lab - Practical Question Bank
## FACULTY OF COMMERCE, OSMANIA UNIVERSITY

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### *B.Com (Computer & Computer Applications)  II Year*

### RELATIONAL DATABASE MANAGEMENT SYSTEM (RDBMS)

Time: 60 Minutes

| | |
|---|---|
| Record | : *10* |
| Skill Test | : *20* |
| Total Marks | : *30* |

**1)** Create a Student table for the following fields :
( StudentNO ,StudentName,Marks in DBMS, E.Commerce, FIT, WebProgramming)
( a ) Insert Five Records.
( b ) calculate Total for Marks  field .

**2)** Create a Student table for the following fields :
(StudentNO ,StudentName,Marks in  B.Law, CostAccts,CorpAccts,WebProgramming)
( a ) Insert Five Records.
( b ) calculate Total for Marks  field .
( c ) Calculate Average of Marks .

**3)** Create a Student table for the following fields :
(StudentNO,StudentName,StudentCollege,University,Address,   Marks   in   FirstYear,
SecondYear, FinalYear)
( a ) Insert Five Records.
( b ) calculate Percentage for  Marks  field .

**4)** Create a Student table for the following fields :
(StudentNO, StudentName, StudentCollege,University,Address,  Marks  in  FirstYear,
SecondYear, FinalYear)
( a ) Insert Five Records.
( b ) calculate Percentage for  Marks  field .
( c ) List all the students who got less than 50%   Marks .
( d ) List all the students who got more than 90%   Marks .

**5)** Create a Student table for the following fields :
(StudentNO, StudentName, Marks  in  DBMS, E.Commerce, FIT, C- Language,
WebProgramming)
( a ) Insert Five Records.
( b ) calculate Total for  Marks  field .
( c ) Calculate Average of Marks .
( d ) Increase 10 marks for the students where average is < 50 .

**6)** Create a Student table for the following fields :
( StudentNO ,StudentName,Marks in DBMS,E.Commerce,FIT,WebProgramming)

( a ) Insert Five Records.
( b ) Calculate Total for Marks field .
( c ) Calculate Average of Marks .
( d ) Increase 5 Percent marks for the students where average is < 40 .

**7)** Create a Student table for the following fields :
( StudentNO ,StudentName,Marks in DBMS,E.Commerce,FIT,WebProgramming)
( a ) Insert Five Records.
( b ) Increase 9% marks to all students in total .
( c ) List all the students who are failed .
( d ) Create a view by the name Student12.

**8)** Create a Student table for the following fields :
(StudentNO ,StudentName,Marks in Hindi, English, Economics, Computers, Total, Average)
( a ) Insert Five Records.
( b ) Increase 5% marks to all the students.
( c ) Remarks : Average > 70 : First .
Average > 50 and < 70 : Second .

**9)** Create a Student table for the following fields :
(StudentNO ,StudentName,Marks in Hindi, English, Economics, Computers, Total, Average)
( a ) Insert Five Records.
( b ) Increase 7% marks to all the students.
( c ) Remarks : Average > 60 : First .
Average > 50 and < 60 : Second .
Average > 40 and < 50 : Third .

**10)** Create a Student table for the following fields :
(StudentNO as Primary Key , StudentName,Marks in DBMS,E.Commerce,FIT,C-Language,WebProgramming)
( a ) Insert Five Records.
( b ) calculate Total for Marks field .
( c ) Calculate Average of Marks .
( d ) Increase 20 marks for the students where average is < 45 .

**11)** Create a Student table for the following fields :
(StudentNO as Primary Key , StudentName,Marks in DBMS,E.Commerce,FIT,C-Language,WebProgramming)
( a ) Insert Five Records.
( b ) calculate Total for Marks field .
( c ) Calculate Average of Marks .
( d ) Increase 10 marks for the students where average is < 30 .
( e ) Delete the records whose Average < 30 .

**12)** Create a Emp table for the following fields :
(EmpNO,EmpName,EmpAddress,Salary)
( a ) Insert Five Records.
( b ) Calculate Total for Salary field .
( c ) List all the Employees  who get less than 5000 as Salary .

**13)** Create a Emp table for the following fields :
(EmpNO,EmpName,EmpAddress,Salary,Dept)
( a ) Insert Five Records.
( b ) Calculate Total for Salary field .
( c ) List all the Employees  who get less than 6000 as Salary .
( d ) Increase Rs. 1000 for the employees whose salary is less than 6000 .

**14)** Create a Emp table with the following fields :
(EmpNO,EmpName,EmpAddress,Salary,Dept)
( a ) Insert Five Records.
( b ) Use  Any Five Aggregate Functions .

**15)** Create a Emp table with the following fields :
(EmpNO,EmpName,Job,Salary,Dept,Comm,JoiningDate)
( a ) Insert Five Records.
( b ) Use  Any Five Aggregate Functions .

**16)** Create a Emp table with the following fields :
(EmpNO,EmpName,Job,Basic,DA,HRA,PF,GrossPay,NetPay)
( a ) Insert Five Records.
( b ) Calculate DA as 30% of Basic .
( c ) Calculate HRA as 40% of Basic .
( d ) Calculate Gross Pay and Net Pay .

**17)** Create a Emp table with the following fields :
(EmpNO,EmpName,Job,Basic,DA,HRA,PF,GrossPay,NetPay)
( a ) Insert Five Records.
( b ) Calculate DA as 60% of Basic .
( c ) Calculate HRA as 20% of Basic .
( d ) Calculate PF as 12% of Basic.
( e ) Calculate Gross Pay and Net Pay .

**18)** Create a Emp table with the following fields :
(EmpNO,EmpName,Job,Basic,DeptNO, DA,HRA,PF, Date of Joining,GrossPay,NetPay)
( a ) Insert Five Records.
( b ) Calculate DA as 25% of Basic .
( c ) Calculate HRA as 45% of Basic .
( d ) Calculate Gross Pay and Net Pay .
( e ) Display all the Department Numbers and  Employees Names .

**19)** Create a Emp table with the following fields :
(EmpNO,EmpName,Job,Salary,DeptNO )
( a ) Insert Five Records.
( b )Display the Unique Department Numbers .
( c ) Display all the Tupples .
( d ) Replace the heading ANNSAL instead  for Sal * 12 .

**20)** Create a Emp table with the following fields :
(EmpNO as Primary key , EmpName,Job,Basic Salary)
( a ) Insert Five Records.
( b ) Display all the  tupples where job=Accountant .

**21)** Create a Emp table with the following fields :
(EmpNO,EmpName,Job,Salary)
( a ) Insert Five Records.
( b ) Display all the employees who earn minimum salary .
( c ) Display all the employees who earn maximum salary .

**22)** Create a Emp table with the following fields :
(EmpNO,EmpName,Job,Salary,Hire date,Dept name )
( a ) Insert Five Records.
( b ) Find Average of salary .
( c ) Display all the clerks in each Dept .

**23)** Create a Emp table with the following fields :
(EmpNO,EmpName,Job,Basic,DeptNO )
( a ) Insert Five Records.
( b ) Create a view  by the name Emp12 .
(c )  Alter the width of field EmpName to 21 characters .

**24)** Create a Emp table with the following fields :
(EmpNO,EmpName,Job,Basic,DA,HRA,PF,GrossPay,NetPay)
( a ) Insert Five Records.
( b ) Display the employees whose  NetPay is lowest in each department .
( c ) If NetPay is  less than < Rs. 10,000 add Rs. 1200 as special allowances .

**25)** Create a Emp table with the following fields :
(EmpNO,EmpName,Job,Basic,DA,HRA,PF,GrossPay,NetPay)
( a ) Insert Five Records.
( b ) Calculate DA as 30% of Basic .
( c ) Delete the tupple where DA=1000.
( d ) Calculate Gross Pay and Net Pay .

**26)** Create a Course table with the  following fields
( Student Name, Course ,College ,Fee )
( a ) Insert five records

( b ) Display the lowest course fee along with the Course

( c ) Display the students name who have done the course M.B.A.

**27)** Create a Course table with the following fields
( Student Name, Course ,College ,Fee )
( a ) Insert five records
( b ) Display all the tupples .
( c ) Use any five Aggregate functions .

**28)** Create a Course table with the following fields
( Student Name, Course ,College ,College Address,,Principal Name ,Fee )
( a ) Insert five records
( b ) Display the Maximum course fee along with the Course
(c) Display the name of students, their college name, Principal name where the course is M.C.A..

**29)** Create a Course table with the following fields
(Student Name,Course,College ,Fee ,NO.of Seats available, Duration of course )
( a ) Insert five records
( b ) Display the lowest course fee along with the Course Duration
( c ) Display all the tupples .

**30)** Create Sales_Order table with the fields
( OrderNO,Order_date,clientNO,dely_type,order_status)
dely_type = Partial delivery( p ) or Full Delivery ( F )
( a ) Insert five records
( b ) Display the order number and day on which clients placed their order .
( c ) Find the date, 15 days after today's date .

**31)** Create Sales_Order table with the fields
( OrderNO,Order_date,clientNO,dely_type,order_status)
( a ) Insert five records
( b ) Display the order number and day on which clients placed their order .
( c ) Find the date, 15 days after today's date .
( d ) Display the month ( in alphabetical order ) when the order must be delayed .

**32)** Create Sales_Order table with the fields
( OrderNO,Order_date,clientNO,dely_type,order_status)
( a ) Insert five records
( b )Find the order_date in the format 'DD-MONTH-YY'.
( c ) Display the order_date as day in character format i.e. 21-Dec-09 .

**33)** Create Sales table with the following fields
( SalesNO,Salesname,Branch,Salesamount,DOB)
( a ) Insert five records
( b )Calculate total salesamount in each branch

( c ) Calculate average salesamount in each branch .

**34)** Create Sales table with the following fields
( SalesNO,Salesname,Branch,Salesamount,DOB)
( a ) Insert five records
( b )Calculate total salesamount in each branch
( c ) Calculate average salesamount in each branch .
( d ) Display all the salesmen who are born in the month of December .

**35)** Create Sales table with the following fields
( SalesNO,Salesname,Branch,Salesamount,DOB)
( a ) Insert five records
( b )Calculate total salesamount in each branch
( c ) Calculate average salesamount in each branch .
( d ) Add a column called sales price .

**36)** Create Inventory table
( SalesNO,Salesname,Branch,Salesamount)
( a ) Insert five records
( b )Calculate total salesamount in each branch
( c ) Delete the tupple where average salesamount < 1000.

**37)** Create  Inventory table with the following fields
( Product_id , Product name ,Quantity , Price )
( a ) Insert five records .
( b ) Add a column called sales price .
( c ) find the sales price as 50% of purchase of price .

**38)**    Create a table DEPT with the following fields
( DeptNO,dname,Location)
( a ) Insert five records
( b ) Display the dname which are located in Hyderabad city .
( c ) Add a column called deptexpenditure and insert data .

**39)**    Create a table by the name Sports with the following fields
( SportsName ,SportsPerson,Gender, Age ,Experience )
( a ) Insert five records.
( b ) Display SportsPerson in upper case .
( c ) Display SportsName in lower case .

**40)** Create Inventory table
( SalesNO,Salesname,Branch,Salesamount)
( a ) Insert five records
( b ) Calculate total salesamount in each branch
( c ) Add  a column called salesprice .
( d ) Calculate salesprice as 20%of salesamount .

**41)** Create a software table with the following fields
( softwarename , Cost, date of manufacture, date of expiry ,NO of copies)
( a ) Insert five records
( b ) Display cost and date of manufacture for each software.
( c ) Display date of manufacture and date of expiry for each software .

**42)** Create a software table with the following fields
( softwarename , Cost, date of manufacture, date of expiry ,NO of copies)
( a ) Insert five records
( b ) Display NO of copies and date of manufacture for each software.
( c ) Display date of manufacture and expiry for each software .

**43)** Create a software table with the following fields
( softwarename , Cost, date of manufacture, date of expiry ,NO of copies)
( a ) Insert five records
( b ) Display cost and date of manufacture for each software.
( c ) Add a column called software type and enter data into it .
( d ) Display the name of software in upper case .

**44)** Create a Faculty table with following fields
( Name , Specialization , Experience ,Age )
( a ) Insert five records
( b ) Display the name in lower case
( c ) Add a column called Grade
( d ) If the experience is more than five years assign the grade as '' A ''

**45)** Create a Faculty table with following fields
( Name , Subjects taught, Date of joining )
( a ) Insert five records .
( b ) Display the name, subject and Date of joining in a format
like " $2^{nd}$ of December 2010 ".

**46)** Create a table by the name Bank with the following fields
( BankName , Branch, InterestRate,CustomerAge, Amount)
( a ) Insert five records .
( b ) Display all the tupples.
( c ) For the CustomerAge > 55 assign InterestRate as 12% on the amount.

**47)** Create Stock table with the following fields
( ItemNO, ItemName,Purchases,Sales)
( a ) Insert five records .
( b ) Display the item name which has highest sales
( c ) Add a column called closing stock and declare as
" closing stock = purchases-sales ".

**48)** Create Teacher table with the following fields
( Name , DeptNO,DeptName,Location, Salary )
( a ) Insert five records
( b ) Give Increment of 25% salary for Commerce Department .
( c ) Perform  Rollback and Commit commands .

**49)** Create Client_master  with the following fields
( ClientNO,Name,Address,State,bal_due)
( a ) Insert five records
( b ) Find the names of clients whose bal_due > 5000 .
( c ) Change the bal_due of ClientNO  " C123" to Rs. 5100
( d ) Change the name of Client_master to Client12 .

**50)** Create Product_ master  with the following fields
( ProductNO,Qty,SellPrice,CostPrice)
( a ) Insert five records
( b ) Calculate the average SellPrice of all the products .
( c ) Display the maximum and minimum SellPrice .
( d ) Count the number of products having CostPrice>=1000 .

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