

Computer Lab – Revised Practical Question Bank
FACULTY OF COMMERCE, OSMANIA NIVERSITY

B.Com (Business Analytics)
Semester-I
Data Driven Decision Making

Time: 60 Minutes

Record	: <u>10</u>
Skill Test	: <u>15</u>
Viva - Voce	: <u>10</u>
Total Marks	: <u>35</u>

PYTHON & STRUCTURED QUERY LANGUAGE
Questions from 1 to 25: PYTHON

1. Write a program to print the following sentences, Hello Everyone and Welcome to the world of Python.
2. Write a program to print to statements “Hello World” and “I am learning Python”.
 - a. Concatenate the strings
 - b. Split the strings
3. Write a program to insert student details – Name, Father’s name, Hall ticket number, Date of birth, age, Stream of study, College name.
4. Write a program to prepare the list of rainbow colours and print the second colour in the "Rainbow" list.
5. Write a program to assign two values to the variables a and b and perform the mathematical operations addition, subtraction, multiplication, division, square of a number.
6. Write a program to assign three values to the variables a, b and c and perform the operations addition, multiplication, $((a+b)+c)$, $(a-(b+c))$, $(a*(b+c))$, $(a + (b*c))$, $(a*(b-c))$.
7. Write a program to find the maximum and minimum of the given list of numbers.
8. Write a program to insert two values at random and perform the operations addition, multiplication, subtraction and division and square of a number.
9. Write a program to insert a number and print “You entered an even number” if the number is even and “You entered an Odd number” if the entered number is odd.
10. Write a program to insert two numbers and print the maximum number.

11. Write a program to form the list of numbers given [45, 56, 24, 13, 68, 74, 45, 10, 9, 65, 87, 46, 54, 100] and print third, fourth and fifth numbers.
12. Write a program to find the length of the list.
13. Write a program to arrange the above list in the ascending and descending order.
14. Create a list of items [100, 100, 400, 200, 300, 500, 600, 700, 100]
Write a program to find how many times a number appeared in the list.
15. Let A =[10, 20, 30, 40]
Write a program for repeating the list of elements three times. Use “*” operator.
16. Write a program to insert eight values in the list and arrange them in the ascending order.
17. Write a program to insert your name, course and marks of different subjects. Also print the total and average marks.
18. Write a program to print the numbers between 100 and 200 separated by comma.
19. Given L1 = [45,56,24,13,68,74,45,10,9, 65, 87, 46, 54,100]
Print the numbers from 2nd to 6th from L1.
20. Create a list of numbers and print them in the order using for statement.
21. Use list comprehension to create a list of all numbers between 1 to 50 that are divisible by 3.
22. Write a program to insert the length of the side of a square and Print its area.
23. Write a program to create a list of 10 elements. Then print the list by adding a new element at the end of the list.
24. Write a program to create a list of 8 elements. Write a program to physically reverse the elements in the list.
25. Insert three lists with 4 elements in each. Then write a program to nest the lists.

Questions from 26 to 50 :: SQL

A. Create a **Supplier** table as shown below : (for questions from 26 to 35)

Sup_No (Primary Key)	Sup_Name	Item_Supplied	Item_Price	City
S1	Suresh	Keyboard	400	Hyderabad
S2	Kiran	Processor	8000	Delhi
S3	Mohan	Mouse	350	Delhi
S4	Ramesh	Processor	9000	Bangalore
S5	Manish	Printer	6000	Mumbai
S6	Srikanth	Processor	8500	Chennai

26. Write sql query to display Supplier numbers and Supplier names whose name starts with 'R'
27. Write sql query to display the name of suppliers who supply Processors and whose city is Delhi.
28. Write sql query to display the names of suppliers who supply the same items as supplied by Ramesh.
29. Write sql query to increase the price of Keyboard by 200.
30. Write sql query to display supplier numbers, Suppliers names and itemprice for suppliers in Delhi in the ascending order of **item price**.
31. Write sql query to add a new column called CONTACTNO.
32. Write sql query to delete the record whose **item price** is the lowest of all the items supplied .
33. Create a view on the table which displays only supplier numbers and supplier names.
34. Write sql query to display the records in the descending order of **item price** for each **item supplied**.
35. Write sql query to display the records of suppliers who supply items other than Processor or Keyboard.

**Below are the details of Employees working for a software Company.
(For questions from 36 to 45)**

Create the table called **Emp. Details** with the below mentioned details.

Eid (Primary Key)	Ename	DOB	Designation	Salary	DOJ
E101	Suma	29-Dec-89	Designer	20000	01-Apr-10
E102	Amit	10-Jan-95	Programmer	25000	18-Feb-18
E103	Payal	15-Aug-85	Tester	35000	13-Jun-11
E104	Kiran	20-Apr-90	Programmer	40000	7-Mar-14
E105	Meenal	29-May-83	DBA	50000	9-Dec-11
E106	Sheila	1-May-70	Analyst	60000	25-Sep-18
E107	Swamy	13-Jan-85	Programmer	45000	14-Feb-16
E108	Sushma	22-Dec-76	DBA	45000	31-Jan-12

36. Write sql query to display all the employees whose designation is Programmer
37. Write sql query to display employees who have joined after 2014.
38. Write sql query to display all the employees whose name ends with 'a'.
39. Write sql query to display the total salary of all the employees whose designation is programmer.
40. Write sql query to display all the employee names in upper case.
41. Write sql query to display the details of the employee with highest experience.
42. Write sql query to display the details of the employees whose name contains 'ee'.
43. Write sql query to increase the salaries of employees by 5000 whose designation is DBA.
44. Write sql query to display the employees whose salary is more than the average salary of all the employees.
45. Write sql query to display the record in the following format: xxxxxxxxxx is working as xxxxxxxxxxxxxxxx with a Salary of Rs. xxxxxxxxx
eg: Suma is working as 'Designer' with a Salary of Rs. 20000.

**Create the two tables as shown below with the given constraints:
(for questions 46 to 50)**

Table name: **Employee** Table name: **Department**

Constraints: Eid is Primary key and DeptId is foreign key Constraints: Dept. Id Primary key
Salary should not be less than 10000 and D name is NOT NULL

Eid (Primary Key)	Ename	DeptId (Foreign Key)	Designation	Salary (> 10000)	DOJ
101	Sudha	D2	Clerk	20000	01-Apr-10
102	David	D1	Manager	50000	18-Feb-18
103	Preethi	D3	Clerk	35000	13-Jun-11
104	Kiran	D1	Salesman	20000	7-Mar-14
105	Meenal	D2	Clerk	50000	9-Dec-11
106	Sunitha	D3	Manager	60000	25-Sep-18
107	Akhil	D3	Clerk	25000	14-Feb-16
108	Sushma	D2	Manager	45000	31-Jan-12

DeptId (Primary Key)	Dname
D1	Sales
D2	Marketi
D3	Finance

46. Write sql query to display all the employees who earn more than average salary of all the employees in the company.
47. Write sql query to display the fields Eid, Ename and Dname.
48. Write sql query to sort the employee table in the descending order of salaries.
49. Write sql query to list all the job designations in the employee table without repetitions.
50. Write sql query to display all the employee details Department wise and in the ascending order of their salaries.

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