

BDTM: Big Data Tools for Managers
2nd Internal Question Paper
Version-A

Q1. Create below table with data and demonstrate JOIN operation in SQL.

Table1 : student

usn	name
1SI22MBA01	John Nick
1SI22MBA02	Bob Smith

Table 2: student_marks

ID	usn	subject	marks
1	1SI22MBA01	sub-1	45
2	1SI22MBA01	sub-2	38
3	1SI22MBA01	sub-3	25
4	1SI22MBA01	sub-4	49

Write MySQL Queries for following:

1. Create student & student_marks tables with data.
2. Perform INNER Join with two tables.

[10]
[5]

Q2. Write simple IF conditional statement to variable contains positive value.

[5]

For Example Variable: var1 = 10

Q3. Demonstrate List Data structures in Python

1. Create List with elements 10,20,30,40,50,60,70,80,90
2. Display all the list elements
3. Display the number of elements present in List using len() function
4. Add 100, 101 elements in to the existing list.

[4]
[2]
[1]
[3]

Q4. Demonstrate Tuple Data structures in Python

1. Create a Tuple with elements
100,110,120,130,140,150,160,170,180,190, 200 [1]
2. Display First element of Tuple [1]
3. Display last element of Tuple [1]
4. Display first 3 elements of tuple [1]
5. Display last 3 elements of tuple [1]

Q5. Demonstrate Pandas package to perform data analysis for IPL dataset.

Step 1: Write below code to read data from Internet and IPL dataset will be loaded into data variable, use data variable name to perform below operations.

```
import pandas as pd  
data = pd.read_csv("https://bit.ly/3V0H3Ox")
```

1. Display Shape of panda DataFrame [1]
2. Display all the columns names with its data types [2]
3. Display quick summary of dataset [2]
4. Display top 10 records [2]
5. Display last 10 records [2]
6. Display all the values of COUNTRY column [2]
7. Count frequency of COUNTRY values [2]
8. Display unique COUNTRY values [2]