

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

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

Table1 : customers

customer_id	name
1001	Nick
1002	Bob

Table 2: customers_orders

ID	customer_id	item	qty
1	1001	Item-1	10
2	1001	item-2	20
3	1001	item-3	30
4	1001	item-4	40

Write MySQL Queries for following:

1. Create customers & customers 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 = 99

Q3. Demonstrate List Data structures in Python

1. Create List with elements 0,1,2,3,4,5,6,7,8,9,10 [4]
2. Display all the list elements [2]
3. Display the number of elements present in List using len() function [1]
4. Add 20, 30 elements in to the existing list. [3]

Q4. Demonstrate Tuple Data structures in Python

1. Create a Tuple with elements
10, 20, 30, 40, 50, 60, 70, 80, 90, 100 [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 TEAM column [2]
7. Count frequency of TEAM values [2]
8. Display unique TEAM values [2]