

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

B.Com (Business Analytics) CBCS Semester - I W.E.F.2020-21

Data Driven Decision-Making - Paper: 103

Time: 60 Minutes

Record : 10
Viva-voce : 10
Skill Test : 15
Total Marks : 35

1. Identify data sets published by industry association or other body in public domain that specifically help in “setting up a business in new geography”.
2. Identify data sets published by industry association or other body in public domain that specifically help in “releasing a new product line”.
3. Identify data sets published by industry association or other body in public domain that specifically help in “exiting the business”.
4. Identify data sets published by industry association or other body in public domain that specifically help in “serving a new market segment”.
5. Identify in what way the data can benefit the organisation with special reference to any company’s case study.
6. Narrate the importance of Data Science with the help of a diagram.
7. Build an analytics team for an organisation with a diagram and explain.
8. Identify the categories of Analytical people and explain skills of Analytical people.
9. Draw the diagram “Data Driven Decision Making process” and explain.
10. Draw the data-driven decision making model and explain.
11. Explain the role of Power BI in data analytics. With special reference to a company.
12. Explain the Operational and Analytical Big Data with examples.
13. List the various shortcut keys along with their utility.
14. Draw the diagram “machine learning algorithm” and explain.
15. Draw the diagram “tools of visualization” and explain.
16. “The data lifecycle is the sequence of stages a data unit goes through from its initial generation to its eventual archival and/or deletion at the end of its useful life”. Identify the stages in the Data Lifecycle.
17. Explain with diagram the three main goals of data lifecycle management.
18. Identify the forms data takes as it is stored and used within the organization.
19. List the steps for crafting the best map to help your company and customers prosper. What is the best practice you should follow while designing your customer journey map.

20. Draw a diagram “cloud storage” and explain its working
21. Visit a company (online) and collect the information and show how they are applying the data analytics tools in their decision making?
22. Pick a data set and report the sources of data
23. Pick a data set and report data definitions
24. Pick a data set and report data Storage.
25. Pick a data set and report data cleansing.
26. Pick a data set and report data analysis.
27. Download the data set of any organization and discuss the hurdles of that organization in becoming a data driven organization
28. Download the data set of any organization and analyse the data practices.
29. Download the data set in any organization and identify the stages in the data lifecycle.
30. Analyse why requirement gathering process is critical to proper analysis.

Python:

31. Prepare a list of rainbow colors and assign a name “Rainbow” to it. Print the second item in the “Rainbow” list.
32. India = 381, England = 259. Print "India won against England" if India score is greater than England score.
33. Create a program that asks the user to enter their name and their age. Print out a message addressed to them that tells them the year that they will turn 100 years old.
34. Ask the user for a number. If the number is even, print “You picked an Even number” and if it is odd print “You picked an Odd number”
35. Write a Python Pandas program to import excel data into a Pandas data frame and print first 5 records
36. Write a Python Pandas program to read specific columns from a given excel file like read 1,2 and 4th columns and print them
37. Write a Python Pandas program to find and print the sum, mean, max, min value of a sample column which has numbers
38. Write a Python Pandas program to import employees excel data into a Pandas data frame and find a list of employees where hire date > 01-01-07
39. Write a Python Pandas program to import employees excel data into a Pandas data frame and to sort the records by the hire date column

40. Write a Python Pandas program to import three datasheets from a given excel data and combine in to a single data frame.

Note: Structure of the three datasheets are same.

SQL: Load given Customers.csv file and work on below tasks



Customers.csv

41. Select all the different values from the Country column in the Customers table.
42. Select all records where the City column has the value "Berlin".
43. Select all records where the City column has the value 'Berlin' and the Postal code column has the value 12209
44. Select all records from the Customers table; sort the result alphabetically by the Column City.
45. Select all records where the City column has the value 'Berlin' or 'London'.
46. Select all records from the Customers table, sort the result alphabetically, first by the column Country, then, by the column City
47. Insert a new record in the Customers table.
48. List the number of customers in each country.
49. Select all records from the Customers table, sort the result reversed alphabetically by the Column City.
50. Select all records from the Customers where the Postal code column is empty.
