

STELLA MARIS COLLEGE (AUTONOMOUS) CHENNAI – 600 086.

COURSE CODE: 19BA/MC/BA53

B.B.A DEGREE EXAMINATION – NOVEMBER 2021

BUSINESS ADMINISTRATION

COURSE : MAJOR – CORE

PAPER : BUSINESS ANALYTICS (Practical – Set 1)

TIME : 2 HOUR

MAX. MARKS: 60

SECTION – A

Answer All The Questions:

(10 x 3 = 30)

1. Write SQL query to Create the below table and insert 5 records into the table (10 marks)

EmpId	EmployeeName	Qualification	PhoneNo	Salary	Country
1234	Samuel	BBM	9885625985	40000	India
1235	John	BCOM	9565874512	44000	USA
1236	Peter	BSC	9568233625	40000	England
1237	Jack	BCOM	9562555685	42000	India
1238	Della	BBM	9856888525	45000	USA

Based on the above table write queries for the following:

- Display all records of the above table.
 - Select all records where the value of the Country column starts with letter "I" and ends with the letter "a".
 - Query to show the top 2 records of a table who has highest salary
 - Select all records where the Qualification column has the value BBM or BCOM.
 - List the number of employees in each country
2. Import the package for graph and write the code to read the csv file cs2m in Python (5 marks)

(a) Using the cs2m.csv files, create the graph based on the following requirement:

- Plot a boxplot for the variable BP
- Give the x label and y label for the graph
- Give title for the graph

(b) Using the cs2m.csv file, write python code for:

(5 marks)

- Printing the structure or type of data
- To display number of rows and columns in the file

- Generate the statistical summary of all the numerical features present in it
- Printing the Top 3 rows in the data
- Printing the Bottom 3 rows in the data

3. a) Create a data set called Restaurant in SAS programming using column input: (5 marks)

Restaurant	NumEmploy	Location
Burger King	5	Toronto
KFC	10	London
Nanda	12	Bangalore
McDonalds	7	Chennai

b) Locate the FISH data set from the SASHelp(reference) library. (5 marks)

Create a subset of the **FISH** data set and name it as **PERCH**. **PERCH** should contain only the observations where **SPECIES** is reported as "**Perch**". Save the data set in the **WORK** library.

SECTION – B

Answer All questions:

(1 x 30 = 30)

4. a) Write a R program using data frame to create the below table

(5 marks)

emp_id	emp_name	salary	start_date
1	Rick	623.30	2012-01-01
2	Dan	515.20	2013-09-23
3	Michelle	611.00	2014-11-15
4	Ryan	729.00	2014-05-11
5	Gary	843.25	2015-03-27

b) For the data frame created above, write the R code to find:

(10 marks)

- Structure of the data frame
- Summary of data in data frame
- Create a variable name dataset and extract columns emp_name and salary
- Retrieve the first 3 record
- Retrieve the last 3 record
- Retrieve the number of rows and columns
- Minimum in salary
- Maximum in salary
- Sum of salary
- Mean of the salary

c) Import the csv file cs2m.csv in R

(5 marks)

Based on the imported file cs2m, create a stem and leaf graph for the variable BP.

d) Based on the imported file cs2m, create a box plot that satisfies the below criteria in R:

(10 marks)

- Box plot for all the variables
- Give a blue color to the box plot
- Create a notch to the box plot
- Give a title to the boxplot created
- Give x label and y label