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 2)
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
1001	David	MBA	9885624444	50000	Srilanka
1002	Ram	MCOM	9565656512	47000	India
1003	Jackson	MSC	8458733625	52000	Australia
1004	Merlin	MCOM	9252521485	47000	India
1005	Mary	MCA	8856888120	60000	Srilanka

Based on the above table write queries for the following:

a. Display all records of the above table.
b. Display the Empid, EmployeeName and Salary where Employee name starts with the letter M.
c. Fetch the names of employee who earn the highest salary.
d. Select all records where the Qualification column has the value MCOM or MBA.
e. List the number of employees in each country.

2. a. Import the grades.csv file and create the following graph in Python (5 marks)

- Construct histogram for the column total in grades file
- Give a title for the histogram created
- Give a title for the x axis and y axis
- Also give red color for the bars

b. Using the grades.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 5 rows in the data
- Printing the Bottom 5 rows in the data

3. a) Create a text file called Employee.txt in the notepad by entering the below details:(5 marks)

Column names are EmpNo, Name, Age, Gender, Salary

0001	David	30	M	10,0000
0002	Virat	35	M	90,0000
0003	Diya	29	F	30,000
0004	Dev	38	M	60,000
0005	Ravi	40	M	75,000

Create a SAS data set named Empdetails. Use the INFILE statement to read the external data file in the code.

b) Locate the **HOLIDAY** data set from **SASHELP**. (5 marks)

Create a subset of the HOLIDAY data set that contains only the holidays that fall in January. Name the new data set as **HolidayData** and have it created in the **WORK** library. How many observations are there in the subset?

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	David	323.30	2022-01-01
2	Jackson	915.20	2021-09-23
3	Michelle	411.00	2021-11-15
4	Jack	929.00	2021-05-11
5	Gary	743.25	2021-03-27

For the data frame created above, write the R code to find: (10 marks)

- Mean of the Salary data
- Median of the salary data
- Create a variable name dataset and extract columns emp_name and salary
- Retrieve the first 3 record
- Mode of the salary data
- Retrieve the number of rows and columns
- Variance in salary
- Standard deviation in salary
- Sum of salary
- Minimum in salary

c) Import the csv file grades.csv in R (5 marks)

Based on the imported file grades, create a stem and leaf graph for the variable total.

d) Based on the imported file grades, create scatter plot that satisfies the below criteria in R:

(10 marks)

- Plot for the variables total and percent
- Give a blue color to the plot
- Give a title to the plot created
- Give x label and y label

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