







# Hands-on Exercise No. 4 DigiSkills 2.0 Batch-07 Data Analytics and Business Intelligence

**Total Marks: 10** 

**Due Date: 13/06/2024** 

#### **Instructions:**

Please read the following instructions carefully before submitting this Hands-on Exercise:

- Use MS Word to prepare exercise solution.
- You may consult tutorials and videos if the concept is not clear.
- Your submitted exercise will not be considered/counted if:
  - It is submitted after due date.
  - It is not in the required format (.doc or .docx)
  - It does not open, or file is corrupt.
  - It is copied (partial or full) from any source (websites, forums, students, etc.)

### **Learning Outcome:**

After completing this exercise, you shall be able to:

- Download and install free R language.
- Install ggplot2 library in R
- Create histogram, boxplot, and bar chart for dataset column.

#### **Problem Statement:**

#### Tasks:

- 1) Download and Install free R language from the following link. https://cran.r-project.org/bin/windows/base/
- 2) Install and import ggplot2 library in R GUI using the following commands. install.packages('ggplot2') library(ggplot2)
- 3) Create histogram for mpg column in mtcars dataset using the following command. ggplot(mtcars,aes(x=mpg)) + geom\_histogram()
- 4) Create bar chart for gear column in mtcars dataset using the following command.  $ggplot(mtcars, aes(x = gear)) + geom_bar()$
- 5) Create box plot for mpg column in mtcars dataset using the following command. ggplot(mtcars, aes(x=as.factor(cyl), y=mpg)) + geom\_boxplot()

#### **Requirements:**

In this exercise you are required to perform all the given tasks and provide

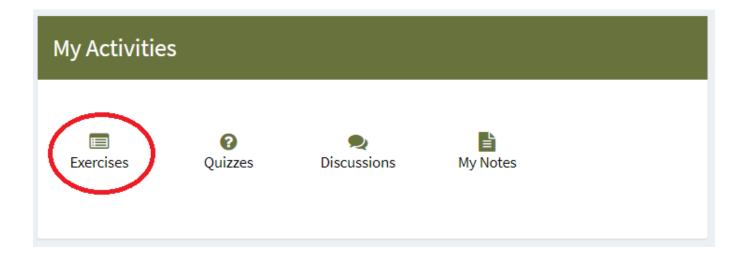
- Screenshots of Task 1, 2, 3, 4 and 5.
- Submit the completed tasks in word document.

BEST OF LUCK ☺

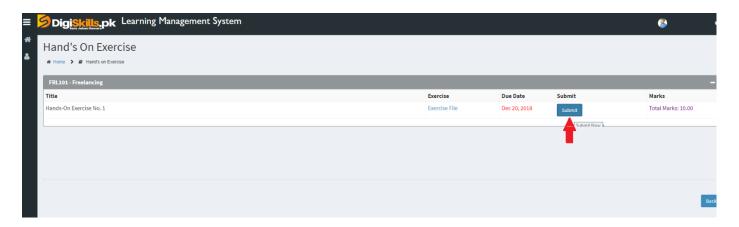
## **How to submit solution file on LMS?**

Please perform the following steps for submitting your solution using LMS:

- 1) Login to the LMS
- 2) Click on the Exercises button within the My Activities section



3) Click on the submit button to upload your Solution.



4) Keep in mind to upload your Solution in .doc or .docx format