COURSE FIVE – Visualization Tools – Tableau

INSTRUCTIONS FOR THE LAB ASSESSMENT:

Please read carefully and understand the total number of questions, the time allocated for each question, and the duration of the lab assessment.

- Total number of Questions : (6) Six
- Total number of questions to be answered: (6) Six
- Duration of lab assessment: 120 Minutes
- Important Notes:
  - Please read through the entire assignment before starting your work.
  - Work Independently, no collaboration or referring to notes or browsing, etc.,
  - The given data is sample data that you need to use to develop PowerBI dashboard.
  - Submit your answers in both Tableau Format and also save it as a pdf

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Introduction:

You are a member of the Analytics team that creates visually appealing and effective dashboards for your client **FIFA** (Federation Internationale de Football Association). Currently, you have a data set that contains the key details of football players across the globe. Your objective is to review this raw data and respond to the questions posed by FIFA in a visual representation using Tableau.

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Questions:

1. Furnish the #players across the countries and show the numbers across the age group. Also, provide the distribution of players by the position they play (like Goal Keeper, Center Forward, etc.,).
2. Draw a curve that shows year wise total number of players who joined FIFA.
3. Using Tree maps, analyze the total number of skilled moves all the players have on their preferred playing foot.
4. Find out the average age of players. Identify the top N countries which have the youngest players on average.
   *(**Hint**: Provide the option for the user to select/type the top N countries)*
5. Find out how many players contract expired in the year 2021.
6. Create a Storyboard with the below story points
   a) Body type-wise distribution of players
   b) Position wise average wages of the players and find out the highest-paid position
   c) How has the Average value of players and wages varied over the years for the current dataset? Plot the same in a dual axis graph.

Standardization and formatting:

1. Consistent Nomenclature across visuals and pages
2. Standard Font Colour, Size and style
3. Chart Axes, Titles and Slicers consistency
4. Overall Alignment of the Visuals and Story board

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Data:

The given data set is entirely made up, but represents the real data and questions we strive to answer.

FIFA DATA:

a) **POSITIONS** – The position the player usually plays in the match

GK – Goal Keeper

LCB – Left Center Back

RCB – Right Center Back

CF – Center Forward

LS – Left Striker

RS – Right Striker

LW – Left Wing Forward

RW – Right Wing Forward

SW - Sweeper

b) **INTERNATIONAL REPUTATION** – Popularity of the player

c) **Preferred Foot** – The foot which the player uses (prefers) to kick the ball in most situations

d) **Weak Foot** – Non preferred foot for kicking the ball. Higher the value, the better a player can play with the weak foot

e) **Skill Moves** – How many trick moves (like Heel Chop, Chest Flick) a player can pull off

f) **Wages** – Salary of players