

# Human Resources Dataset Analysis

## 1. Build Data Model, Data Cleaning and Preprocessing

**Tools:** SQL, Python (pandas, Matplotlib)

## 2. Analysis Questions Phase

Determine all possible analysis questions that can be deduced from the given dataset and would be of interest to the organization's decision makers,  
e.g., what is the relation between the employees ages and their satisfaction level

**Tools:** SQL, Python (pandas, Matplotlib)

## 3. Forecasting Questions Phase

Determine a set of forecasting questions and answer them using the trends found in the given dataset .

**Tools:** Python (scikit-learn, pandas, Matplotlib)

## 4. Visualization Dashboard

Build a Visualization Dashboard: Build a Tableau visualization dashboard that visualize the answers to all answered questions .

**Tools:** SQL, Python (pandas, Matplotlib), Tableau .

## 5. Final Presentation

Final Presentation: Prepare a report and presentation summarizing the project work, including data analysis, model development, and deployment .

### Team's Members:

**Mona Saber :** Select and build Data Model & Final presentation

**Mahmoud Ashraf :** Build data Model & Analysis Questions

**Omar Zayed :** Data Cleaning and Preprocessing & Forecasting

**George Morad :** Data Cleaning and Preprocessing & Visualization Dashboard