

## **ASSIGNMENT**

1. Describe the role of spreadsheets in modern organizations. Explain how they are used for data analysis and organization and why they are considered one of the most flexible analytical tools. Mention the most commonly used spreadsheet software package.
2. Discuss how data analytics professionals use programming languages. Explain why they often prefer using programming languages over other software packages and mention the R programming language and Python as two commonly used programming languages for analytics.
3. Explain the interaction of analysts and developers with databases. Discuss the role of Structured Query Language (SQL) and its subcomponents, Data Definition Language (DDL), and Data Manipulation Language (DML) in database management.

4. Describe the role of statistical analysis software in data analysis.

5. Explain the role of machine learning software in data analysis. Discuss the purpose of machine learning packages and how they make machine learning techniques more accessible to analysts.

6. Discuss the role of data analytics suites in data analysis and management. Explain how these tools provide powerful capabilities that cross all phases of an analytics process.