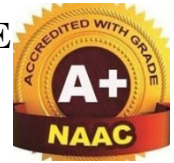


**SHRI GNANAMBICA DEGREE COLLEGE, MADANAPALLE  
(AUTONOMOUS)**

**PROGRAMME: B. Sc (DATA Science)**

**II YEAR-IV-SEM**

**COURSE: INTRODUCTION TO SQL AND ADVANCED TABLEAU  
QUESTION BANK**



**Unit-1**

**Short answer questions**

1. Difference between data and information?
2. Applications of data base management system?
3. What is an attribute and types of attribute?
4. Explain degree of relationship?
5. What is regular entity? Explain mapping regular entity with example?
6. What is data base explain objectives of data base?
7. How to convert binary relationship to tables with example?
8. How to convert unary to tables with example?

**Long answer questions**

1. Explain data models and types of data model?
2. Write about file processing system? Explain the drawback in file oriented system?
3. What is database? Explain the advantages of DBMS?
4. What is ER-model and components of ER-model ?
5. What is ER-model? Explain about attribute and relationship in ER model?
6. What is ER-model? Explain entity and attributes ?

**Unit-2**

**Short answer questions**

1. What is an SQL and its characteristics?
2. Explain about DCL commands ?
3. Explain about DML commands
4. Explain about self join and Cartesian join?
5. Explain about set operations?
6. Explain about views?

**Long answer questions**

1. What are data types? Explain different types of data types in SQL?
2. What is an SQL commands? Explain DDL and DML commands with examples?
3. Explain about aggregate function with examples?

4. Explain about joins and types of operations in joins?
5. Explain about set operations with examples?
6. Explain about views in SQL?

### **Unit-3**

#### **Short answer questions**

1. Explain about map geographical chart?
2. Explain about line chart and bubble chart?
3. Explain about tree chart?
4. Explain calculated fields and explain any two of its calculations?
5. Explain about filters in tableau and types of filters?
6. Explain about binding values?

#### **Long answer questions**

1. Explain about optimal visualization and types (bar chart, gant chart, bullet , scatter plot)with examples and with their advantages and dis-advantages?
2. Explain about optimal visualization and types (pie chart, bubble , line ,heat chart)with examples and with their advantages and dis-advantages?
3. Explain calculated fields and types of calculations?
4. Explain about filters in tableau and types of filters and how to apply filters and explain pre-processing orders?

### **Unit-4**

#### **Short answer questions**

1. What is a dashboard explain how to create a dashboard ?
2. Explain dashboard design creation?
3. What are the principles of dashboard ?
4. Explain about dashboard interactivity?
5. Explain drill-down connecting?

#### **Long answer questions**

1. What is a dashboard? Explain dashboard development plan?
2. What is a dashboard? Explain dashboard design principles and dashboard inter activity?
3. How to create visualization in tableau?
4. What is a dashboard? Explain about drill-down connecting dashboard with its best practices?
5. Explain about creating a bar graph and line graph with their advantages and disadvantages?

## **Unit-5**

### **Short answer questions**

1. Explain about large datasets?
2. Explain about fiscal year calculation?
3. Explain about tableau scripting?
4. Explain about tableau server?
5. Explain data blending and integration, collaboration and sharing?

### **Long answer questions**

1. Explain advanced charts (tree map, box plot, bullet graph) in tableau with their advantages and dis-advantages?
2. Explain about tableau server and tableau scripting?
3. Explain about fiscal year calculation and large datasets?
4. Explain about integration of tableau with R-programming?
5. Explain about dashboard design, data blending and integration ,advanced analytics and predictive modeling, collaboration and sharing in tableau?