EDA Practice Case Study Answers

Case Study 1 Answers (Titanic):

• Target Variable: Survived
• Missing Values: Age (imputed with median), Embarked (mode), Cabin (dropped due to high missing%)
• Fare is right-skewed; log transformation recommended.
• Outliers detected in Fare using IQR.
• Females had higher survival rate than males.
• 1st class passengers survived more than 3rd class.
• Age and Fare moderately correlated with survival.

Case Study 2 Answers (SQL - Customer Churn):

• Target Variable: churn
• Income distribution slightly right-skewed.
• Outliers detected in annual_income using IQR.
• Customers with low membership_years more likely to churn.
• Higher spending_score customers less likely to churn.
• Recommendation: Provide loyalty rewards for low-tenure customers.