Here are maximum EDA questions for your telecom churn dataset:

### 1. Data Overview & Cleaning

- 1. What is the shape (number of rows and columns) of the dataset?
- 2. What are the data types of each column?
- 3. Are there any missing values in the dataset?
- 4. How should missing values be handled?
- 5. Are there any duplicate records?
- 6. What is the distribution of categorical and numerical features?
- 7. Are there any inconsistencies in categorical variables (e.g., typos, extra spaces)?
- 8. Are there any outliers in numerical columns like MonthlyCharges and TotalCharges?

# 2. Descriptive Statistics

- 9. What are the mean, median, min, max, and standard deviation of numerical features?
- 10. How is the distribution of tenure among customers?
- 11. How are MonthlyCharges and TotalCharges distributed?
- 12. How many customers belong to each category of Contract?
- 13. What is the percentage of senior citizens in the dataset?
- 14. What is the proportion of customers with and without partners?
- 15. How many customers use each InternetService type?

### 3. Churn Analysis

- 16. What is the overall churn rate in the dataset?
- 17. How does churn vary across different Contract types?
- 18. Do customers with PaperlessBilling churn more often?
- 19. Is there a difference in churn rate between male and female customers?
- 20. How does churn correlate with MonthlyCharges and TotalCharges?
- 21. What is the average tenure of churned vs. non-churned customers?
- 22. Do customers with TechSupport churn less frequently?
- 23. How does StreamingTV and StreamingMovies impact churn?
- 24. Does having MultipleLines affect churn?
- 25. Which PaymentMethod has the highest churn rate?
- 26. Are customers with Dependents less likely to churn?
- 27. How does churn differ among SeniorCitizen and non-senior customers?

# 4. Correlation & Relationships

- 28. What are the correlations between numerical features?
- 29. Which feature has the highest correlation with churn?
- 30. Is there a relationship between tenure and TotalCharges?
- 31. How does InternetService affect MonthlyCharges?
- 32. Are PaperlessBilling customers paying higher MonthlyCharges?
- 33. Do customers with longer tenure tend to pay more in TotalCharges?
- 34. Does PaymentMethod affect MonthlyCharges?
- 35. Are there customers with TotalCharges very low despite long tenure?

### 5. Customer Segmentation & Trends

- 36. What are the top 3 most common customer profiles (e.g., gender, contract, InternetService)?
- 37. What is the most common contract type among customers?
- 38. Which InternetService type has the highest MonthlyCharges?
- 39. Do customers who use OnlineBackup and DeviceProtection churn less?
- 40. Are Partner and Dependents related to customer longevity (tenure)?
- 41. Are customers with higher MonthlyCharges more likely to be in shorter contracts?
- 42. Which StreamingTV or StreamingMovies customers pay the highest?
- 43. What is the most common payment method among churned customers?

### 6. Advanced Analysis

- 44. Can we create customer segments based on tenure, MonthlyCharges, and TotalCharges?
- 45. Can a machine learning model predict churn using these features?
- 46. What are the most important predictors of churn based on feature importance?
- 47. How does churn vary by customer age (SeniorCitizen feature)?
- 48. What is the tenure distribution for customers with One-year and Two-year contracts?
- 49. How does churn vary among different states (if geographic data is available)?
- 50. What are the top 5 insights from this dataset for business action?

These questions will help **analyze**, **visualize**, **and extract insights** from the dataset. Let me know if you need further refinements!