Data Analyst Interview Guide

Essential Topics You Need to Know

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Core Data Analyst Interview Topics You Should Know

1. Excel/Spreadsheet Skills

- **VLOOKUP, INDEX-MATCH**

- **Pivot Tables**

- **Conditional Formatting**

- **Data Cleaning & Validation**

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Core Data Analyst Interview Topics You Should Know

2. SQL & Databases

- **SELECT, JOINs (INNER, LEFT, RIGHT)**

- **GROUP BY, HAVING, ORDER BY**

- **Subqueries & Window Functions**

- **CTEs (Common Table Expressions)**

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Core Data Analyst Interview Topics You Should Know

3. Data Visualization

- **Tools: Power BI, Tableau, Excel**
- **Best practices: choosing the right chart**
- **Dashboards & Interactivity**
- **Storytelling with Data**

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Core Data Analyst Interview Topics You Should Know

4. Statistics & Probability

- **Mean, Median, Mode, Standard Deviation**

- **Correlation vs. Causation**

- **Hypothesis Testing (t-test, p-value)**

- **Confidence Intervals**

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Core Data Analyst Interview Topics You Should Know

5. Python for Data Analysis

- **Libraries: Pandas, NumPy, Matplotlib, Seaborn**

- **Data wrangling & cleaning**

- **Basic EDA (Exploratory Data Analysis)**

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Core Data Analyst Interview Topics You Should Know

6. Business Understanding

- **KPI identification**

- **Funnel analysis**

- **AB Testing basics**

- **Decision-making support**

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Core Data Analyst Interview Topics You Should Know

7. Problem Solving & Case Studies

- **Product metrics**

- **Customer segmentation**

- **Market trend analysis**

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Core Data Analyst Interview Topics You Should Know

8. ETL Concepts

- **Data extraction, transformation, loading**
- **Data pipeline basics**

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Core Data Analyst Interview Topics You Should Know

9. Data Cleaning Techniques

- **Handling missing values**
- **Duplicates, outliers**
- **Data formatting**

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10. Soft Skills & Communication

- **Explaining insights to non-technical stakeholders**
- **Clear visualization storytelling**
- **Collaborating with cross-functional teams**

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