IBM Data Analyst Career Guide and Interview Preparation

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What you'll learn

- Describe the role of a data analyst and some career path options as well as the prospective opportunities in the field.
- Explain how to build a foundation for a job search, including researching job listings, writing a resume, and making a portfolio of work.
- Summarize what a candidate can expect during a typical job interview cycle, different types of interviews, and how to prepare for interviews.
- Explain how to give an effective interview, including techniques for answering questions and how to make a professional personal presentation.

Week 1: Build a Foundation (Aug 31st)

Week 2: Applying and Preparing to Interview (Sep 1st)

Week 3: Interviewing (Sep 2nd, 2023)

After you've attracted a company's attention, it's important to know how to follow through. The Interviewing module will guide you through the interview process from beginning to end. You'll learn about common types of interviews and what to expect from them, including code challenges. You'll also learn some crucial tips for making a great impression in a final interview and how to follow up so that you stand out from the crowd.

- 1) Overview of the Interview Process
- 2) Coding Challenges in Data Analysis

Execute SQL Queries

Exercise 1: List all stations in an alphabetical order. Output should contain StationId, StationName. ▼ Solution Syntax 1 Select StationId, StationName From dimstation 3 Order by StationName asc Exercise 2: List all trips that collected waste > 40. Output should contain TripId, Waste. ▼ Solution Syntax 1 Select TripId, Waste From facttrips 3 Where Waste > 40 Exercise 3: List average waste collected for each date. Output should contain DateId, average waste. Select DateId, AVG(Waste) as avg_Waste From facttrips Exercise 4: List truck Names with their count. Output should contain TruckName, count ▼ Solution Syntax 1 | Select TruckName, count(TruckId) as count_Trucks 2 From dimtruck Exercise 5: List City with total waste collected. Output should contain CityName, total_Waste ▼ Solution Syntax Select st.StationName as CityName, sum(tr.Waste) as total_Waste From dimstation st Left outer join facttrips tr ► Output Exercise 6: List minimum waste collected per quarter in 2019. Output should contain QuarterName, minimum waste. ▼ Solution Syntax Select min(tr.Waste) as min_Waste, dt.QuarterName as QuarterName from facttrips tr Left outer join dimdate dt On tr.dateId = dt.dateId and dt.year=2019

- 3) Final interviewing
- 4) Interviewing: Discussing a Project
- 5) Unethical Questions and Behaviors

6) Check List