

Capgemini

Data Analyst Interview (2025)

1. Tell me about yourself.

Answer:

"I am Aman, currently working as a Junior Power BI Developer at FisSetter. I have hands-on experience in building interactive dashboards and data models using Power BI, Excel, SQL, and Python. My expertise includes data cleaning, DAX calculations, and creating KPI-driven reports that support business decisions. I enjoy solving complex data problems and making insights easy to understand for business users. I'm particularly interested in joining Capgemini because of its focus on innovation and global projects, which I believe will help me grow as a data analyst while contributing to impactful business solutions."

2. What is the difference between Power BI Desktop and Power BI Service?

Answer:

- **Power BI Desktop** → Used for creating reports, data modeling, transformations, and DAX measures.
 - **Power BI Service** → Cloud-based platform used for sharing, publishing, collaboration, scheduled refresh, and creating dashboards.
- In short, Desktop is for **development**, Service is for **deployment & collaboration**.
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3. Can you explain your experience with DAX?

Answer:

"I have worked extensively with DAX for creating calculated columns, measures, and KPIs. For example, I used CALCULATE with time intelligence functions like SAMEPERIODLASTYEAR to analyze year-over-year sales. I also implemented ranking functions using RANKX and created custom profit margin KPIs. My focus is always on writing optimized DAX to ensure reports are fast and efficient."

4. How do you optimize a slow Power BI report?

Answer:

- Reduce columns and rows at the data source level.
- Use **Star Schema** instead of a flat table.
- Avoid complex calculated columns; prefer measures.
- Use **Aggregations** and **Incremental Refresh** for large datasets.
- Optimize DAX (avoid nested IF, replace with SWITCH, use SUMX carefully).
- Turn off auto date/time for unnecessary columns.

5. What's the difference between Star Schema and Snowflake Schema? Which one is better for Power BI?

Answer:

- **Star Schema:** Fact table in the center, connected to dimension tables (denormalized).
- **Snowflake Schema:** Dimension tables further normalized into sub-dimensions.

In Power BI, **Star Schema is preferred** because it improves query performance, simplifies relationships, and reduces model complexity.

6. Can you share a challenging problem you solved while working on a dashboard?

Answer:

"In one of my e-commerce sales dashboards, the client wanted real-time insights into sales growth by region with multiple slicers (year, product, segment). The dataset was large and reports were slow. I optimized the model by implementing a star schema, removed unnecessary columns, and replaced calculated columns with measures. I also used aggregations for high-level data."

This improved performance by 40%, and the client appreciated the faster insights.”

7. What are some common DAX functions you frequently use?

Answer:

- **CALCULATE** → Context transition and filtering.
 - **FILTER** → Applying row-level filters.
 - **ALL / ALLEXCEPT** → Removing filters for comparison.
 - **SUMX / AVERAGEX** → Iterators.
 - **RANKX** → Ranking by sales/profit.
 - **DATEADD, SAMEPERIODLASTYEAR, TOTALYTD** → Time intelligence.
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8. How do you handle security in Power BI?

Answer:

- **Row Level Security (RLS):** Creating roles with DAX filters like [Region] = USERPRINCIPALNAME().
 - **Object-Level Security:** Restricting access to specific tables/columns.
 - Using **Power BI Service Workspaces** and **App Permissions** for user-level access control.
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9. Explain a situation where you used SQL in your projects.

Answer:

“I often use SQL to extract, clean, and aggregate data before loading it into Power BI. For example, in my Coffee Sales Data Analysis project, I wrote SQL queries with JOIN, GROUP BY, and WINDOW FUNCTIONS to calculate sales trends and customer retention. This pre-processing reduced the data size and made Power BI reports faster.”

10. Why do you want to join Capgemini as a Power BI Developer / Data Analyst?

Answer:

“Capgemini is known for its strong analytics and digital transformation projects across industries. I want to join Capgemini because it offers opportunities to work on diverse global projects, learn from experts, and grow in data analytics and BI. I believe my skills in Power BI, SQL, and data visualization can contribute to Capgemini’s client solutions while also enhancing my career growth.”

⚡ Pro tip for you, Aman: In Capgemini, they also ask **scenario-based questions**, like *“If the business asks for a KPI but the data is incomplete, how will you handle it?”* or *“How do you explain your dashboard to a non-technical manager?”*.

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