

# Capgemini

## Data Analyst Interview (2025)

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### 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."

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### 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."

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#### 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.
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#### 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.
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#### 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.”

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## 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.”

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## **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.”

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⚡ 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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