Power BI Interview Preparation Checklist

Fundamentals

[ ] Understand what Power BI is and its components (Desktop, Service, Mobile)
[ ] Explain the difference between Power BI Pro and Premium
[ ] Define basic terminology (reports, dashboards, datasets, workspaces)
[ ] Describe the Power BI development lifecycle

Data Connection & Preparation

[ ] Connect to various data sources (SQL, Excel, CSV, Web)
[ ] Understand connection types (Import, DirectQuery, Live Connection)
[ ] Clean and transform data using Power Query Editor
[ ] Merge and append queries
[ ] Create calculated columns in Power Query
[ ] Handle errors and null values

Data Modeling

[ ] Design star/snowflake schema models
[ ] Create relationships between tables (one-to-many, many-to-many)
[ ] Understand active vs inactive relationships
[ ] Set up role-playing dimensions
[ ] Implement slowly changing dimensions
[ ] Create calculated columns and measures using DAX

DAX (Data Analysis Expressions)

[ ] Understand context transition and filter context
[ ] Use basic functions (SUM, AVERAGE, COUNT, DISTINCTCOUNT)
[ ] Apply time intelligence functions (SAMEPERIODLASTYEAR, DATEADD)
[ ] Use iterator functions (SUMX, AVERAGEX)
[ ] Implement conditional calculations (IF, SWITCH)
[ ] Create calculated tables
[ ] Understand and use variables in DAX

Visualization Techniques

[ ] Create and customize various visualizations
[ ] Implement sorting, filtering, and highlighting
[ ] Create drill-down and drill-through reports
[ ] Design responsive reports
[ ] Use bookmarks and selection panes
[ ] Add conditional formatting
[ ] Understand and use small multiples

Advanced Analytics

[ ] Implement hierarchies and grouping
[ ] Use AI visuals (Key Influencers, Decomposition Tree)
[ ] Configure Q&A features
[ ] Apply statistical functions
[ ] Implement what-if parameters
[ ] Create and use calculation groups

Performance Optimization

[ ] Diagnose and optimize slow reports
[ ] Use Performance Analyzer
[ ] Implement query folding
[ ] Create aggregations
[ ] Optimize DAX measures
[ ] Understand VertiPaq engine and storage modes

Deployment & Administration

[ ] Manage workspaces and apps

[ ] Implement row-level security (RLS)

[ ] Set up scheduled refreshes

[ ] Configure data gateways

[ ] Create dataflows for reusable ETL

[ ] Implement incremental refresh

Integration & Extensibility

[ ] Embed Power BI reports in applications

[ ] Use Power BI REST API

[ ] Create custom visuals

[ ] Integrate with R and Python

[ ] Connect Power BI with Power Apps and Power Automate

[ ] Implement DirectQuery for Power BI datasets and Analysis Services

Real-world Scenarios

[ ] Design solutions for common business problems

[ ] Troubleshoot data refresh issues

[ ] Optimize large datasets

[ ] Create end-to-end solutions from data source to visualization

[ ] Implement governance and best practices

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Power BI Interview Preparation Checklist

Performance Optimization
- Query Folding
- Optimize DAX Measures

Deployment & Administration
- Row-level Security
- Data Gateways

Fundamentals
- Power BI Components
- Power BI Pro vs Premium

Data Connection & Preparation
- Data Sources
- Power Query Editor

DAX DXF
- Basic Functions
- Time Intelligence

Data Modeling
- Schema Models
- DAX Measures

Power BI
Interview
Preparation
Checklist

Visualization Techniques
- Visualizations
- Drill-down Reports

Advanced Analytics
- AI Visuals
- What-if Parameters

Integration & Extensibility
- Custom Visuals
- Integration with R and Python