**Building a Power BI Dashboard for Sakila Video Rental Store**

As a data analyst for Sakila Video Rental, your job is to analyze customer payments, rental behavior, and branch performance. Build a report in Power BI by importing data from **MySQL Mavenmovies DB**, visualizing key metrics, and publishing it to **Power BI Service** with auto-refresh, alerts, and subscriptions.

 Building an End-to-End Reporting Solution using Power BI + MySQL + Power BI Service

**1. Data Connection and Loading**

**Question:**

You are tasked with creating a Power BI dashboard for a DVD rental company using the **Sakila MySQL database**. Begin by connecting to the database and importing the rental and payment tables into Power BI.

**2. Load Filtered Data Using SQL WHERE Clause**

**Question:**

Load only those records from the payment table where the amount is greater than 5.

**3. Use SQL Logical Operators for Data Filtering**

**Question:**

You need to analyze high-value payments made by a specific customer. Load records from the payment table where customer\_id = 5 **and** amount > 8.

**4. Use Aggregate Functions with GROUP BY**

**Question:**

Generate a summary showing **total** and **average** payment made by each customer.

**5. Cards, Slicers, and KPI Visual**

**Question:**Show the Total Revenue, Total Rentals, and Average Payment Amount using Cards and KPIs.

**6. Column Chart, Bar Chart, Pie Chart**

**Question:**  
Compare revenue by customer, number of rentals per staff, and payment distribution by mode.

**7. Time-Based Line Chart & Area Chart**

**Question:**Visualize daily revenue trends and cumulative rental trends.

**8. Waterfall Chart: Monthly Revenue Change**

**Question**:  
Show how revenue changes month-over-month.

**9. Drill Down & Drill Through**

**Question**:  
Enable drill-down from year → month → day in payment trends. Create a drill-through page for customer-level details.

**10. AI Visuals – Decomposition Tree & Smart Narrative**

**Question**:  
Analyze what contributes to high payment amounts.

**11. Q&A Visual**

**Question**:  
Allow users to type questions like:

* “What is the total revenue by customer?”
* “Show average payment by staff”

**12. Publish to Power BI Service**

**Question:**

After building your report locally, publish it to the **Power BI Service** for online collaboration.

**13. Create and Manage a Workspace**

**Question:**

Create a new workspace in Power BI Service called Sakila Insights to manage your report assets.

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