Advanced Power BI (June 2024)

List Readings

3 REASONS to use a single dataset for your Power …

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Welcome to Unit 2 - Data Model

This course focuses on the Power BI Desktop App. However, read this to understand how the Power BI Service connects to the data model.

Work with Single Dataset

As analysts attempt to organize company data from multiple departments into a meaningful data set in order to analyze or answer some question, they can encounter some universal challenges:

- Lack of resources to scrub and validate data – 80% of an analyst's analyzing time is spent addressing this challenge. When analysts are overburdened in this area, it might mean that projects are not taken on due to a lack of resources.
- Systems are not integrated to provide access to all required data – The data needed for driving decisions is often located in multiple unconnected systems. Data can stretch across a company's CRM, marketing automation, operational systems, web logs, etc. Every single part of the company may store data in a different way in a different location.
- Staff lacks the correct skills – Lots of people may be able to make dashboards and reports, but cleaning, validating and integrating data requires a different set of skills.
- Inconsistent data format – This challenge often comes down to the level of precision or granularity. From a precision perspective, one system might use names while another uses IDs, and trying to match between names and IDs or emails and IDs can be very difficult. Granularity problems come into play when trying to match data such as US Census data at a regional level to individual human records.
- Insights are not generated in a timely manner – The first 4 challenges drive this one. Business leaders want answers immediately—they do not want to

wait for analysts to overcome all these challenges.

A "golden data set" is a clean, validated, integrated data set. The process for establishing it takes planning. The first step is to identify all the data sources that have important information. Next, identify which fields are common across the different sources and find a way to join or reconcile those fields. It is important to define the rules for joining. Finally, put the plan into action. A plan might be for a giant enterprise data management project, or it might be on a smaller scale within a single department, but the planning process stays the same. (SS&C Blog).

Watch the video **3 reasons single dataset**.

To complete your understanding of the data model read this article on the importance of creating a star schema.

Not on Quiz

As mentioned, Microsoft has renamed datasets to Semantic Models. If you're curious about why, read this article by Matt Allington.

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