✓ Filtering with Dimensions and Measures

What is Filtering?

- Filtering limits the data returned from a query based on specific criteria.
- It helps focus on relevant data to answer specific questions.

Filtering with Dimensions

Definition

- **Dimensions** are **descriptive attributes** (e.g., title, author, category).
- Filtering with dimensions happens before calculations.

Example: Book Dataset

- Dataset includes: title, author, price.
- Filtering by **author** = "Chad A." returns 2 rows.
- Filtering by author AND title returns 1 row.
- Filtering by **author OR title** returns 3 rows.

\^ Logical Operators

- AND: Returns rows that meet all criteria.
- **OR**: Returns rows that meet at least one criterion.

Filtering with Measures

Definition

- Measures are aggregated values (e.g., count, average).
- Filtering with measures happens after calculations.

Example: Average Book Price

- Group rows by author, calculate average price.
- Filter authors with average price \geq \$10.
- Returns: Amy T. (\$12) and Beatrix P. (\$20).

E Key Differences

FeatureDimensionsMeasuresTypeDescriptive attributes Aggregated valuesFilter Timing Before calculationAfter calculationExampleAuthor = "Chad A."Avg price > \$10

Why It Matters

As a cloud data analyst, mastering filtering techniques helps you:

- Focus on relevant data
- Improve data quality
- Make accurate and timely decisions