**Content Guidelines for Semantic Model YAML Files**

**1. Metadata**

* **name**: A concise, descriptive name for the semantic model.
* **description**: A high-level overview of the semantic model’s purpose and usage.

**2. Tables**

Each semantic model should include the following table-related details:

* **name**: Table name used within the model.
* **description**: A brief explanation of the table’s purpose.
* **base\_table**: Details of the underlying database, schema, and table (e.g., database, schema, table).

**3. Dimensions**

Dimensions describe the attributes in the table.

* **name**: Name of the dimension (e.g., GENDER, EMPLOYMENT\_STATUS).
* **description**: A meaningful explanation of what the dimension represents.
* **expr**: The expression or column name in the base table mapped to this dimension.
* **data\_type**: Data type of the dimension (e.g., TEXT, NUMBER).
* **sample\_values**: Example values to help understand the attribute's range.
* **synonyms**: Optional aliases or alternate names for the dimension.

**4. Measures**

Measures define the metrics or calculations.

* **name**: Name of the measure (e.g., AGE, LOAN\_AMOUNT).
* **description**: An explanation of what the measure calculates or represents.
* **expr**: The column or formula representing the measure.
* **data\_type**: Data type of the measure (e.g., NUMBER, TEXT).
* **sample\_values**: Example numeric or text values to show expected outputs.
* **synonyms**: Optional aliases or alternate names for the measure.

**5. Verified Queries**

Verified queries are predefined SQL queries included for guidance or validation.

* **name**: A concise name summarizing the query.
* **question**: Natural language question the query addresses.
* **sql**: The SQL code to answer the query.
* **verified\_at**: Timestamp when the query was verified.
* **verified\_by**: Name or identifier of the person who verified the query.

**6. Best Practices**

* **Consistent Naming**: Ensure uniform naming conventions for dimensions and measures.
* **Descriptions**: Provide clear and concise descriptions to avoid ambiguity.
* **Validation**: Include verified queries to test and demonstrate the model's usability.
* **Sample Data**: Use realistic sample values to help understand data behaviour.
* **Expandability**: Ensure the YAML structure is easy to extend for additional tables, dimensions, and measures.

**7. Notes**

* Include comments or notes in the YAML file to document important information (e.g., assumptions, version history, or constraints).