1 Centralized Age Groups

```
SELECT AgeGroupID, AgeGroupName
FROM `familysmsdev.retail_sales_snowflake_schema.age_group_lookup`
ORDER BY AgeGroupID;
```

Advantage: Update an age group label once and all related customer records automatically inherit the change.

2 Customers with County

Advantage: County names live in one place—no spelling inconsistencies across the data model.

3 Revenue by County

```
GROUP BY co.CountyName
ORDER BY TotalRevenue DESC;
```

Advantage: Multi-level joins (store \rightarrow town \rightarrow county) are straightforward because each level is normalized.

4 Revenue by Product Category

Advantage: Category definitions are maintained centrally for easy reclassification.

Sevenue by Brand

Advantage: Brand data stored once—brand renames or mergers require only one update.

6 Quarterly Revenue Trend

Advantage: Fiscal quarter changes only require updating the quarter_lookup table.

7 Revenue by Gender

Advantage: Gender categories can evolve without altering the fact table.

8 Units Sold by Age Group

```
GROUP BY ag.AgeGroupName
ORDER BY TotalUnits DESC;
```

Advantage: Demographic analysis is easy because age groups are centrally defined.

Manager Performance

Advantage: Manager information is stored once—reassignments or name corrections require a single update.

Data Integrity Check for Orphan Towns

Advantage: Normalized keys make it simple to find missing or invalid references.

Key Snowflake-Schema Advantages Demonstrated

- **Centralized attributes** easy maintenance and consistent values.
- **Reduced redundancy** fact table stays small; no repeated text.
- Flexible analysis straightforward drill-down across multiple normalized layers.
- **Data integrity** foreign keys allow quick integrity checks and orphan detection.