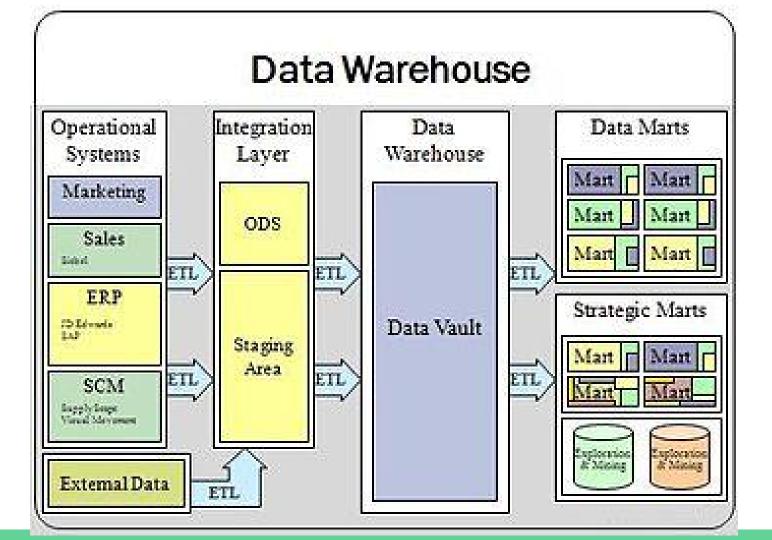
Data Warehousing CS199 - ACC

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Why?

- To store and aggregate large sums of data in suitable format for problem-solving and decision-making
- To get data quickly



Three Stages in Data Warehouse

- Extraction

- Get the data

- Transformation

Make it useful.

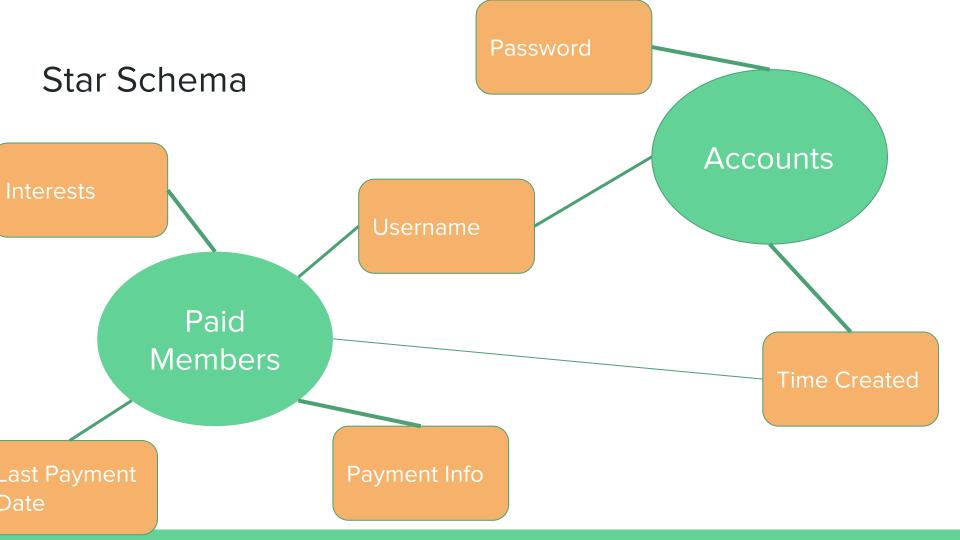
- Loading

- Save it to the warehouse

Data Marts

Subsets of the Data Warehouse

- Independent Data Pools
 - Separations of queries
- Simpler for different audience/users
- Make it easier to solve smaller problems



Google BigQuery

Managing Data

- Can create/delete based on a JSON-encoded schema
- Import data encoded as CSV or JSON from Google Storage

Query

- Standard SQL Dialect returns JSON
- Max length result of 128 MB or unlimited large query results enabled

Integration

 Can be used from Google Apps / Spreadsheets, or any languages with REST API / client libraries

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