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# Design

* + Constellation Schema
    - Fact tables
      * Player Fact Table (Cumulative)
      * Transfer Fact Table (Snapshot)
    - Four to five dimensions
      * Season Dimension Table (SCD Type 0: Different Grain)
      * Transfer Window Dimension Table (SCD Type 0)
      * Club Dimension Table (SCD Type 0)
      * Player Dimension Table (SCD Type 2)

Diagram

Description automatically generated

# ETL

* + CSV Files
    - Transfers
    - Stats 20/21
    - Stats 21/22
  + ETL to have columns Name, Club and Nationality to be consistent throughout. Picked specific years of transfer and different type of incoming transfer types. Setup Club, Season Transfer Window Dimension table (SCD Type 0). Found the distinct players and then merged with player club and age to keep track of SCD Type 2.
  + Build Transfer Fact and Players Stats Fact Table and foreign key constraints linked with Dimension Table

**Change:**

Added calculated measures Goals to Game Ratio and Goals to Start Ratio.

* + Loaded the data warehouse into SQL

**Change:**

SQL Query to Rank the goals scored by incoming Transfer Players.

Graphical user interface, text, application

Description automatically generated

# Visualization

Used Tableau to make interesting graphs and observations using all dimensions, calculated fields and filters.

Chart

Description automatically generated

Chart

Description automatically generated

Chart

Description automatically generated

**Change: Added Boxplots**

Chart, scatter chart

Description automatically generated

Chart, box and whisker chart

Description automatically generated