Database queries

- DBPYLR
  - Package for querying remote databases
  - Large datasets that can't be stored in memory
  - Minimize SQL knowledge requirements

- DBI
  - Provides interface for DBPYLR

- ODBC
  - DBI compliant connections to databases with ODBC drivers

R vs Matlab

R

- Open source
  - External packages
  - Community support

- Exploratory Statistical Analysis

- Widely used in industry

Matlab

- Licensed

- Engineering oriented

- Faster

- Primarily university driven

Tableau

- Used for data dissemination
- Simpler to use
- Limited by control
- Surface level analysis

Excel

- Hampered by large dataset
- Limited by control
- Licensed

RMarkdown

- Similar to LaTeX

- Can directly embed R code, outputs, charts etc. into reproducible document

- R2D3
  - Provides R interface for D3
  - Interactive models