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SQL-Powered Excel

Month/Year



Objectives for today

- The basics of relational databases and SQL's role
- The foundational commands used for reading data from one or more tables in a database
- Schemas, primary keys and foreign keys: what makes relational databases “relational.”



Augment your Excel skills

- Use SQL to query a database to extract useful information
- Explore basic commands and functions of SQL
- Extract data and work with queries to pull the data you need for your analysis



Excel and SQL for Business Analytics

What is a database and when would you use it?

What is a spreadsheet and when would you use it?

Good for...

- Browsing data
- Entering/editing data
- Flexible data structuring
- Quick, visual data analysis on small datasets



What is a spreadsheet and when would you use it?

Good for...

- Browsing data
- Entering/editing data
- Flexible data structuring
- Quick, visual data analysis on small datasets

Not so much at...

- Archiving data
- Big data
- Interfacing data
- Structured data across multiple datasets



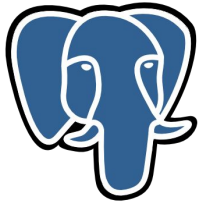
Relational databases

- 1970s origins...

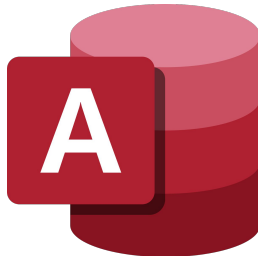


Relational databases

- 1970s origins...
 - Still with us today!



PostgreSQL



What relational database system does your organization use?

A.	PostgreSQL
B.	Oracle
C.	SQL Server
D.	Microsoft Access
E.	Other/don't know



Meet your Librarian, SQL

- Structured
- Query
- Language



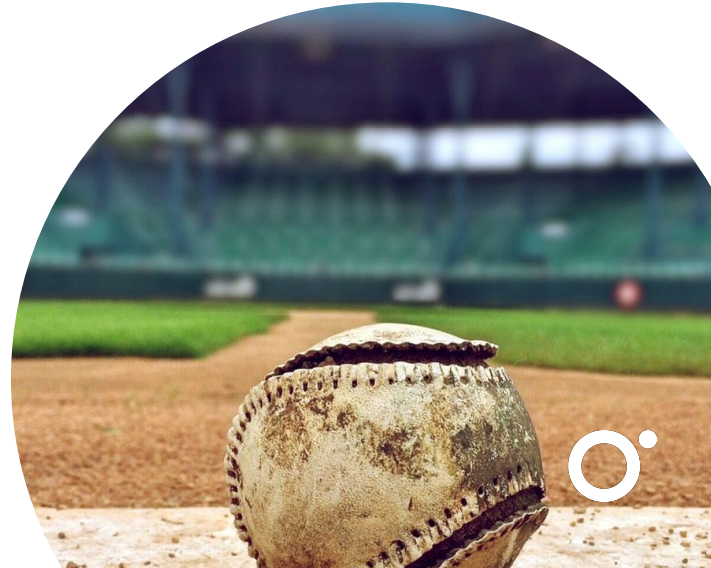
Are you ready for some baseball?

- Lahman database: complete player statistics since 1871 plus salaries, Hall of Fame inductions and more!



Are you ready for some baseball?

- Lahman database: Complete player statistics since 1871 plus salaries, Hall of Fame inductions and more!
- Download [here](#) for SQLite.



Onward to SQLite!



+



SQLite
Studio



1. How many columns are in Managers?
2. How many of these columns are of type INTEGER in Managers?
3. How many rows does Managers have?

**Are you
ready for
some drills?**



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Questions?

