Introduction to SQL (Update)

INTRODUCTION



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Structured Query Language (SQL) is a special-purpose programming language

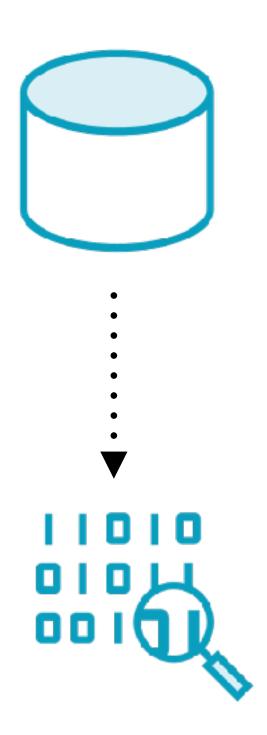
SQL's Purpose

To manipulate sets of data

Typically from a relational database

ANSI and ISO standards

In this course, I'll stick to standards-based SQL



A database is ...

A container to help organize data

A way to efficiently store and retrieve data

Relational

A way to describe data and the relationships between data entities.

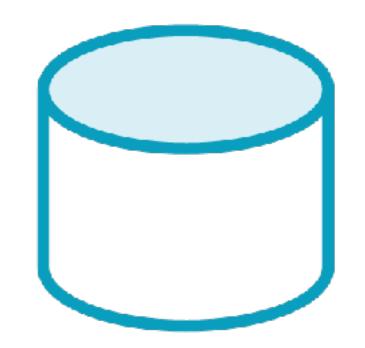
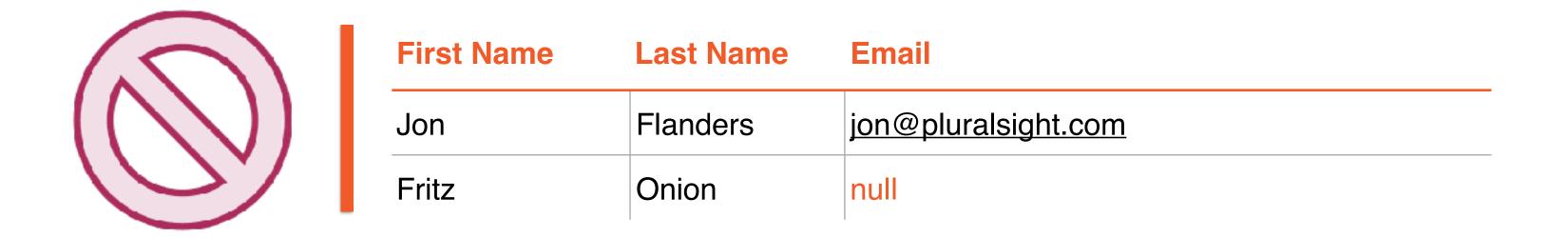


Table Name: Contacts

First Name	Last Name	Email
Jon	Flanders	jon@pluralsight.com
Fritz	Onion	null



What are all my contacts that have a last name that starts with F?



Email2

null

jon2@gmail.com



A Better Solution - Normalization

Key	First Name	Last Name
1	Jon	Flanders
2	Fritz	Onion

Key	Person Key	Email
1	2	fritz@pluralsight.com
2	1	jon@pluralsight.com
3	1	jon@foo.com

Database design is important; it controls the questions you can ask later.

SQL is the language you use to ask the questions.

Summary

SQL is a powerful declarative language that you can grasp by understanding a few basic concepts