



Database Table References



Database table references



Recall: relationship types

One-to-one
One-to-many (or many-to-one)
Many-to-many

Foreign Key:

A set of columns in a table that refers to the primary key of another table

Each relationship has a different set of requirements for a foreign key

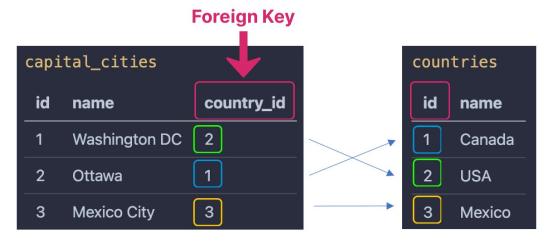


One-to-One



Requires a unique, non-nullable foreign key on one table

Example: Country has 1 Capital City, and Capital City has 1 Country



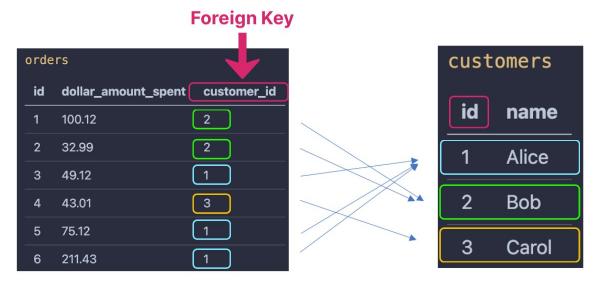


One-to-Many



Requires a foreign key column on the "many" table

Example: Customer has multiple Orders, such that each Order belongs to 1 Customer

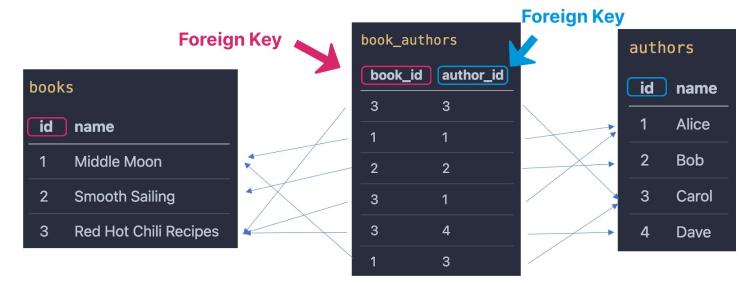






Requires an intermediate table of unique non-nullable foreign key pairs to reference each table

Example: Author may write multiple books, and Book may be written by several Authors

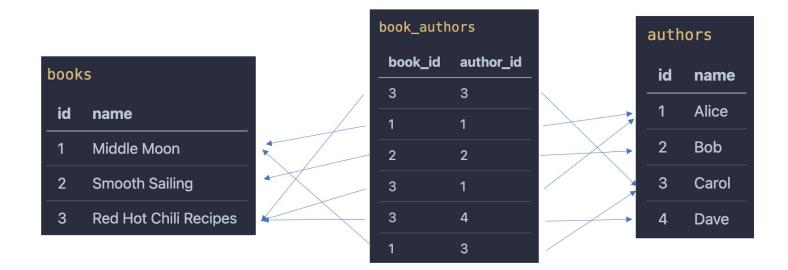






Question: Who wrote "Red Hot Chili Recipes"?

Pause the video until you find the answer

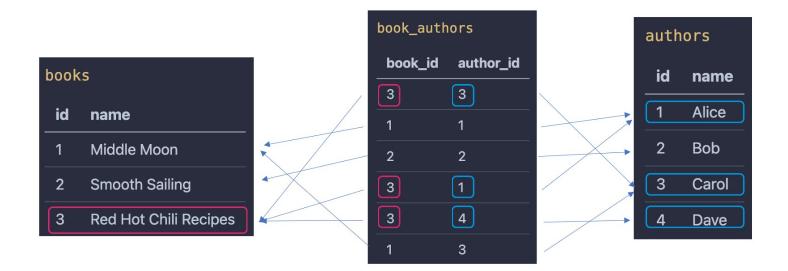






Question: Who wrote "Red Hot Chili Recipes"?

Answer: Carol, Alice, and Dave

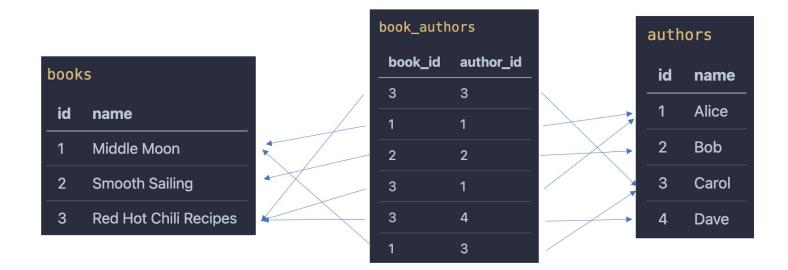






Question: What is the primary key of books_authors?

Pause the video until you find the answer







Question: What is the primary key of books_authors?

Answer: A composite primary key of (book_id, author_id) pairs

