

Data Relationships

CS 2550 Database 2023
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1

Relationship Types

- How data in different tables relate to each other
- Also called the cardinality
 - One to One – 1:1
 - One to Many – 1 : Many
 - Many to Many – M : N

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1 : 1

- There is exactly one entry for the table on the left for the table on the right
 - State – Capital City
 - Person – Fingerprints
 - Student – Chromebook

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1 : Many

➤ There are Many entries for the table on the right for each entry of the table on the left

➤ Car Company – Models

➤ Customer – Orders

➤ Library Card – Checked out books

➤ Cupboard - Dishes

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M : N

➤ Both the left and right tables have multiple entries with corresponding values

➤ This requires an associative table that is built from the primary keys of the corresponding tables

➤ Orders – Products

➤ Students – VP

➤ Influencer – Follower

➤ Books – Authors

➤ Ingredients – Recipes

➤ Doctors – Patients

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