

E-R Diagram Mapping

Database System Concepts

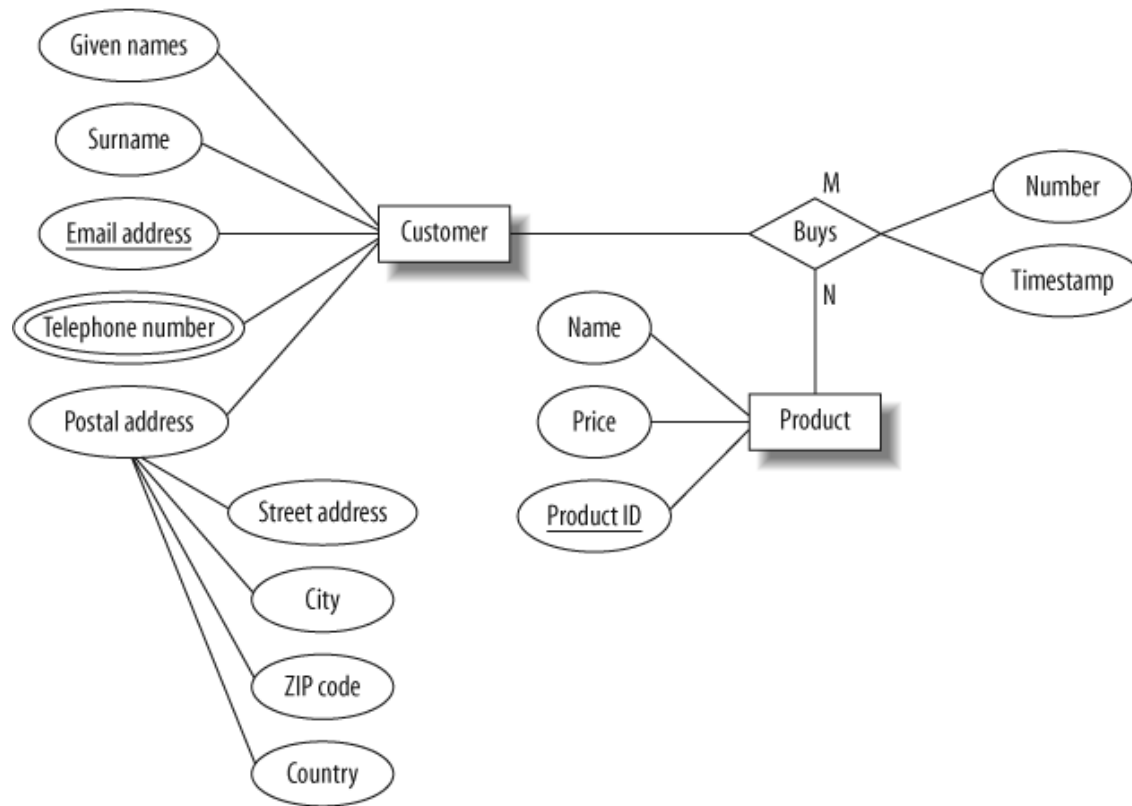
E-R Diagram Mapping Steps

☐ E-R Diagram Mapping Steps

- ☐ Step 1: Regular entity types and single valued attributes
- ☐ Step 2: Weak Entity Type and Single Value Attribute
- ☐ Step 3: Binary 1:1 Relationship Type
- ☐ Step 4: Regular binary 1:N relationship type
- ☐ Step 5: Binary M:N relationship type
- ☐ Step 6: Ternary or higher relationship types
- ☐ Step 7: Multi-valued attribute

Practice 1

□ Given the following ER Diagram, map it into logical schemas



Practice 1

❑ Order E-R Diagram Mapping Steps

✓ Step 1: Regular entity types and single valued attributes

- Customer(Email_address, Given_names, Surname, Street_address, City, ZIP_code, Country)
- Product(Product_ID, Price, Name)

✓ Step 2: Weak Entity Type and Single Value Attribute

- Not applicable

✓ Step 3: Binary 1:1 Relationship Type

- Not applicable

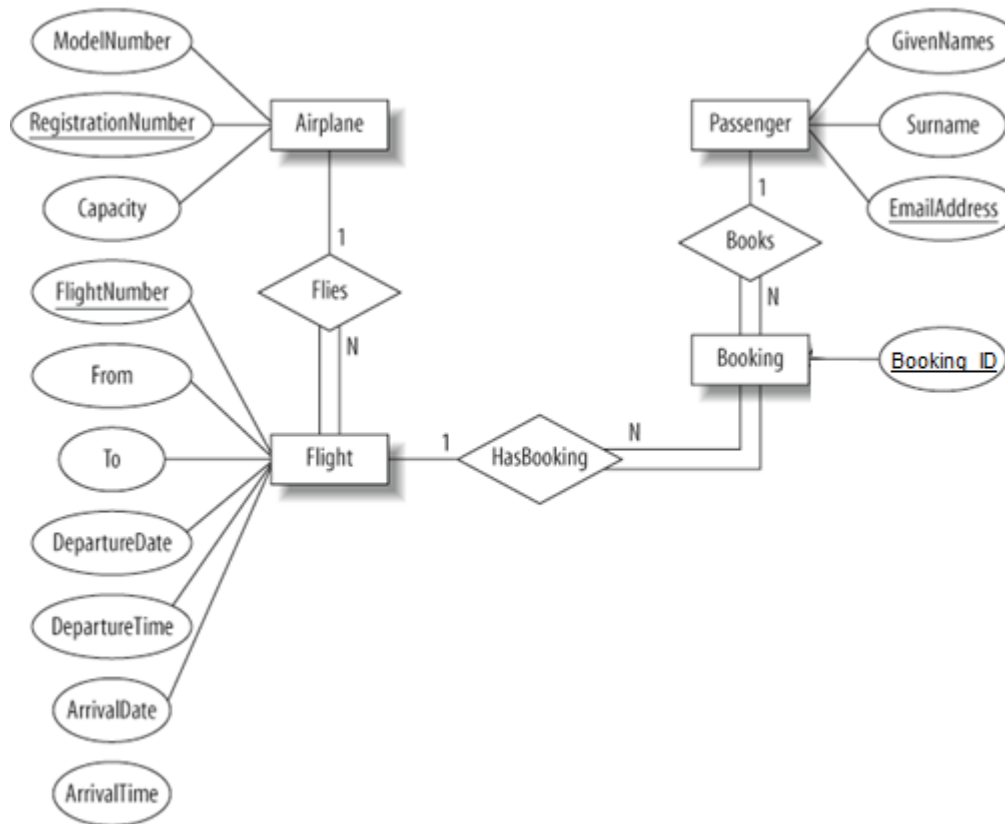
Practice 1

❑ Order E-R Diagram Mapping Steps

- ✓ Step 4: Regular binary 1:N relationship type
 - Not applicable
- ✓ Step 5: Binary M:N relationship type
 - Buys(Email_address, Product_ID, Number, Timestamp)
- ✓ Step 6: Ternary or higher relationship types
 - Not applicable
- ✓ Step 7: Multi-valued attribute
 - Customer_Telephone(Telephone_number, Email_address)

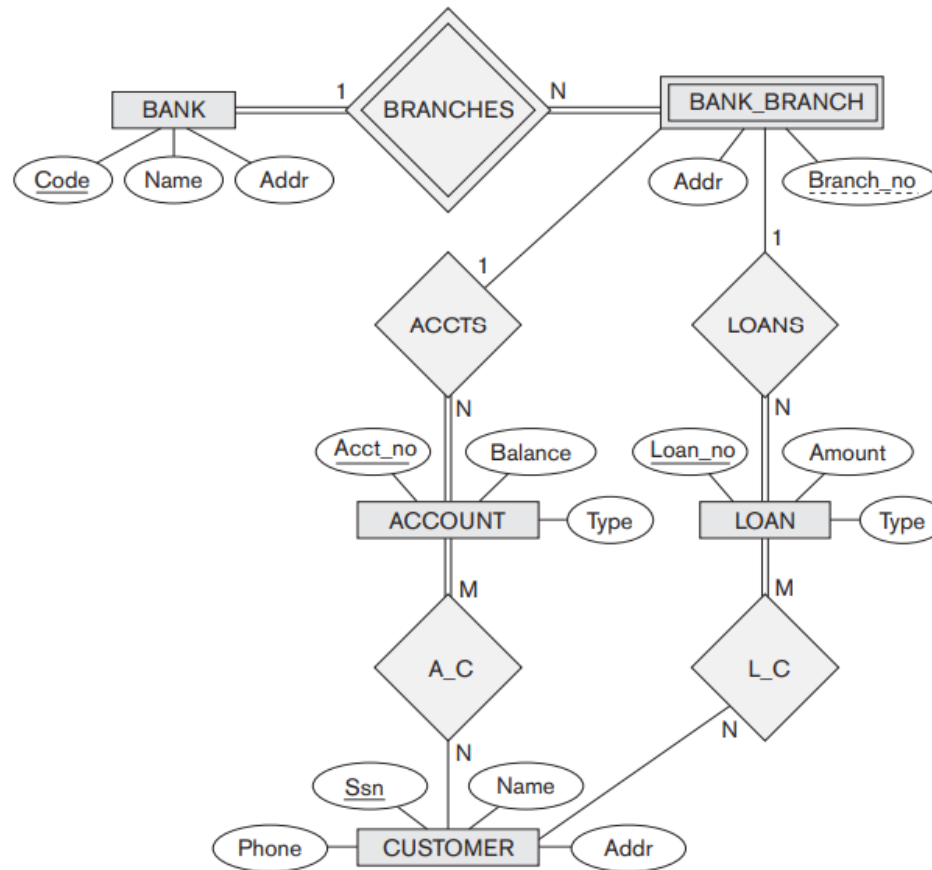
Task 1

- ❑ Given the following ER Diagram, map it into logical schemas



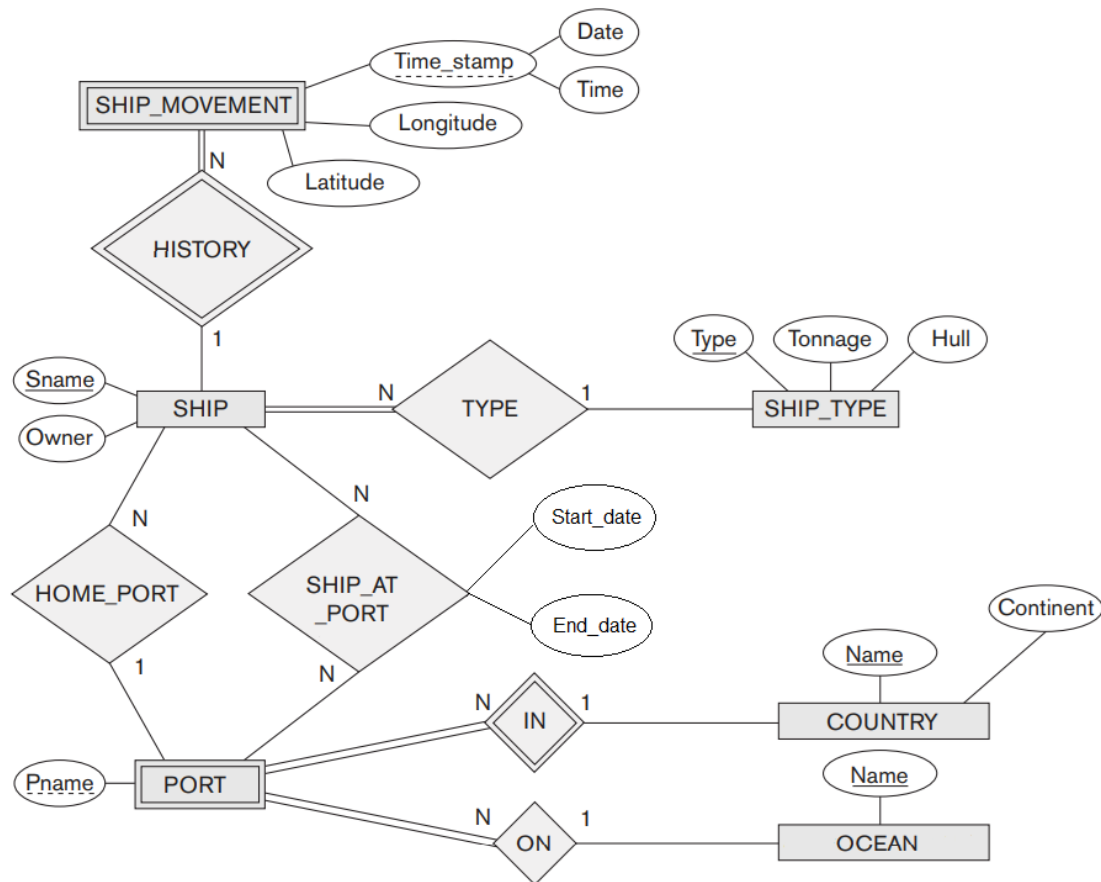
Task 2

- ❑ Given the following ER Diagram, map it into logical schemas



Task 3

- ❑ Given the following ER Diagram, map it into logical schemas



Questions?

SEE YOU NEXT TIME!