

CS 338

Lecture 16

Mapping ERD to Relational Data Model

Additional Slides

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1 Slide 28 - Exercise: Relationship to Relation

- 1. Regular Entity Types
- 2. Multivalued attributes
- 3. Weak Entity Types
- 4. 1:1 Relationships
- 5. 1:N Relationships
- 6. N:M Relationships
- 7. ternary and n-ary

1 Drinkers

<u>name</u>	addr
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2 Beers

<u>name</u>	manf
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1 None.

1 None.

1 Married

1 Note: neither participation is total.

2 Marriages

<u>husband</u>	<u>wife</u>
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3

FOREIGN KEY("husband") REFERENCES "Drinkers"("name"),

4 **FOREIGN KEY**("wife") REFERENCES "Drinkers"("name"),

1 Favorite

1 Beers

<u>name</u>	addr	favoriteBeer
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2

FOREIGN KEY("favoriteBeer") REFERENCES "Beers" ("name"),

Likes

1 Likes

<u>drinkerName</u>	<u>beerName</u>
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2

FOREIGN KEY("drinkerName") REFERENCES "Drinkers"("name")

3

FOREIGN KEY("beerName") REFERENCES "Beers"("name"),

Buddies

1 Buddies

<u>Buddy1</u>	<u>Buddy2</u>
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2

FOREIGN KEY("Buddy1") REFERENCES "Drinkers" ("name"),

3

FOREIGN KEY("Buddy2") REFERENCES "Drinkers" ("name"),

1 None.