Chapter 10

Conceptual Databases Design Methodology Worked Example Transparencies

Chapter 10 - Objectives

- **♦** How to use the conceptual database design methodology, described in Chapter 7.
- ◆ How to use this methodology to create a conceptual database design for the *DreamHome* case study.

Step 1.1 Identify entity types

Branch Advert

Staff Newspaper

Supervisor Interview

Secretary Client

Property_for_Rent Lease_Agreement

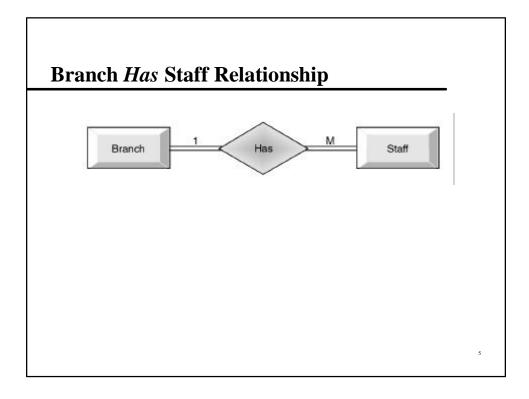
Private_Owner Inspection

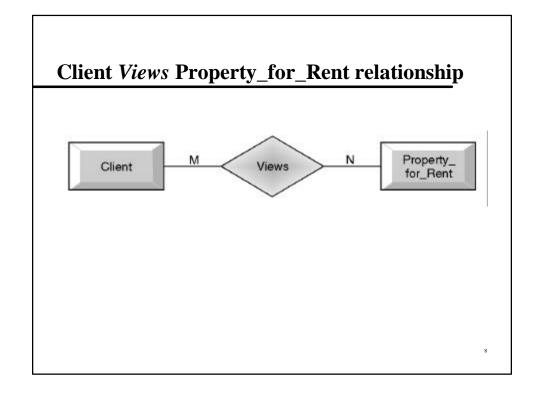
Business_Owner

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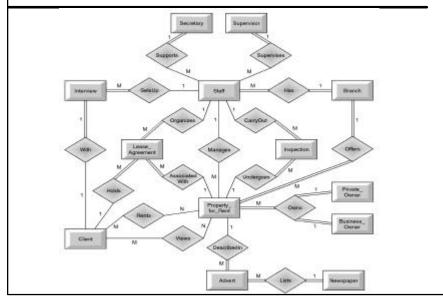
Step 1.2 Identify relationship types

Entity type	Relationship type	Entity type
Branch	Has	Staff
Staff	Manages	Property_for_Rent
	SupervisedBy	Supervisor
	SupportedBy	Secretary
	SetsUp	Interview
	Organizes	Lease_Agreement
	CarryOut	Inspection
Supervisor	Supervises	Staff
Property_for_Rent	IsAvailableAt	Branch
	ManagedBy	Staff
	OwnedBy	Owner
Private_Owner	Owns	Property_for_Rent
Business_Owner	Owns	Property_for_Rent
Advert	Describes	Property_for_Rent
	PlacedIn	Newspaper
Interview	With	Client
Client	Views	Property_for_Rent
	Rents	Property_for_Rent
	Holds	Lease_Agreement
Lease_Agreement	AssociatedWith	Property_for_Rent
Inspection	MadeOf	Property_for_Rent









Step 1.3 Identify and associate attributes with entity or relationship types

Entity type	Attribute
	Tel_No Pref_Type Max_Rent
Lease_Agreement	Lease_No Rent Payment_Method Deposit_Amount Deposit_Paid Rent_Start Rent_Finish Duration
Inspection	Date_Inspect Comments
Relationship type	Attribute
Views	Date_View Comments

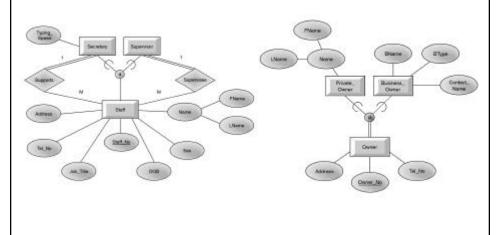
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Step 1.4 Determine attribute domains

- ◆ For attributes in the Supervisor's local conceptual data model of the *DreamHome* company.
 - » (e.g. Domain of Branch_No attribute of Branch entity includes a three-character string, with values ranging from B1 to B99).

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Step 1.6 Specialize/generalize entity types (optional step)



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