## **Chapter 10**

# How to design a database



Murach's MySQL 4th Edition

## The Models tab of MySQL Workbench Home page





## **Operations you can perform from the Models tab**

- Open an existing EER model
- Create a blank EER model
- Create an EER model from an existing database
- Create an EER model from a SQL creation script
- Remove an EER model from the list



## The EER model for the AP database

MySQL Workbench				-	
MySQL Model* (ap.mwb) ×	EER Diagram $\times$				
File Edit View Arrange Model	Database Tools	Scripting Help			
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Description	<b></b>	Table Name: vendors		Schema: ap	$\otimes$
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Type Definition Flag	? vendor_id	INT(11)			
	<ul> <li>vendor_name</li> <li>vendor_address1</li> </ul>	VARCHAR(50)			
	vendor_address2	VARCHAR(50)			~
	Column Name:		Data Type:		
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## **Operations for working with an EER model**

- Edit a table
- Add a new table
- Delete a table
- Display a diagram
- Create a new diagram
- Create a database creation script from the model



## The EER diagram for the AP database





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## **Operations for working with an EER Diagram**

- Add an existing table to the diagram
- Add a new table to the diagram
- Display the model for a table
- Define the relationship between two tables
- Edit and delete relationships
- Remove a table from the diagram (and, optionally, the model)

