

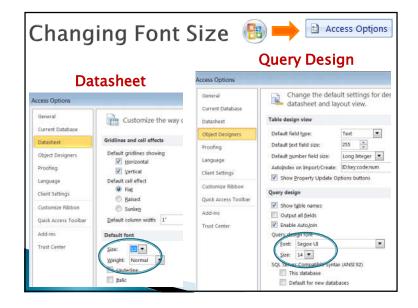
Data for This Lab

https://goo.gl/XYTc5p

https://goo.gl/ShNjmJ

Save the file 13_student_class.accdb and 13_student_class_rel.accdb on your computer.

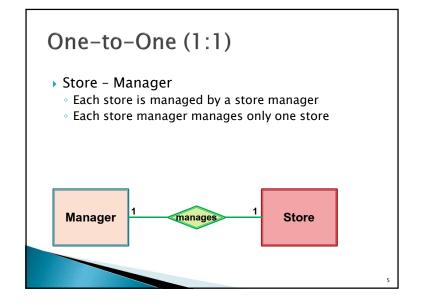
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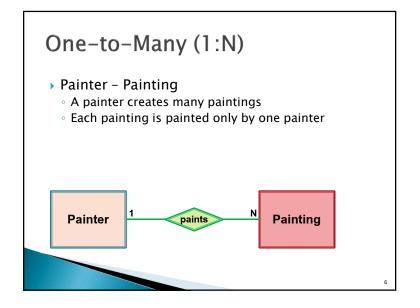


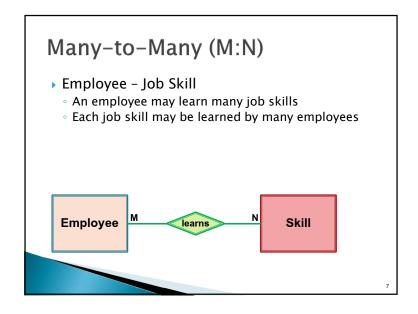
Review: Relationship

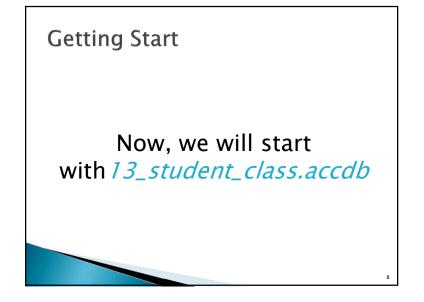
- Relationship tells you how records in one table related to record in another table.
- How different data relate.
- Type of Relationship:
- One to one (1:1)
- One to many (1:N)
- Many to many (M:N)

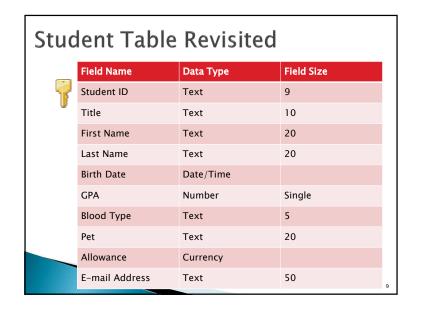
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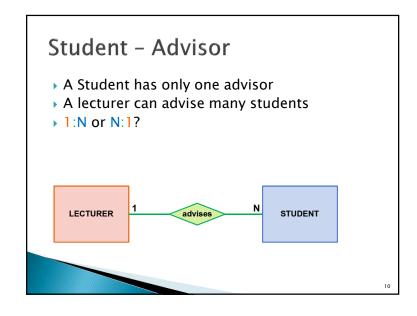


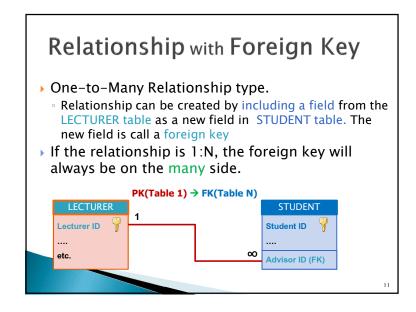


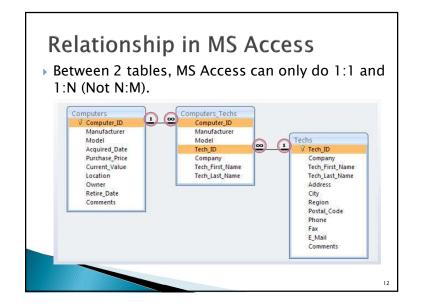








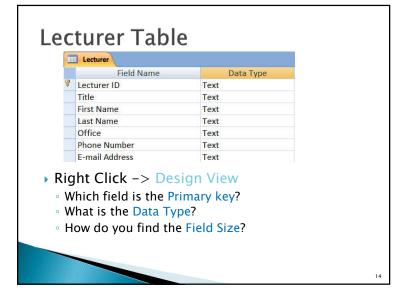




Restriction

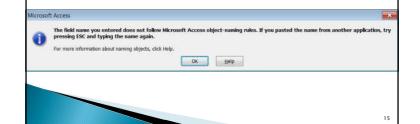
- In a database, all table names must be unique
- Can't have two tables with the same name
- In a table, all field names must be unique
 - · Can't have two columns with the same name.

. . .



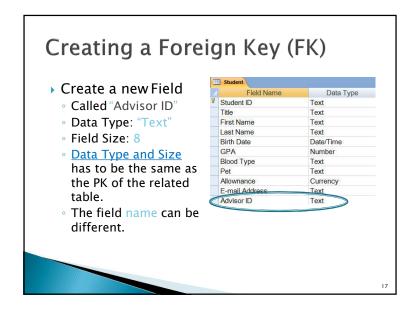
Creating a Foreign Key (FK)

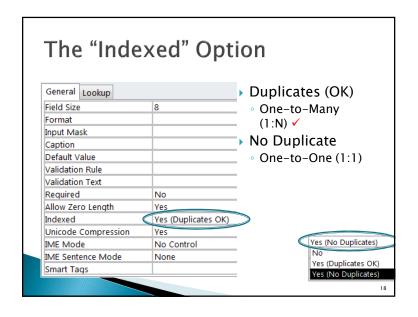
- Student Table -> Design View
- ► Create a new Field called "Advisor ID"
 - Enter

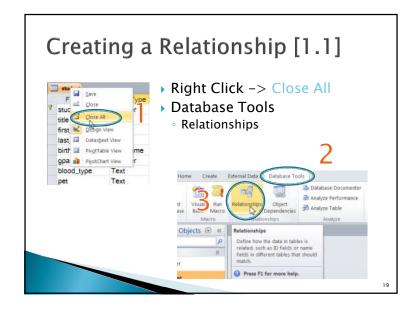


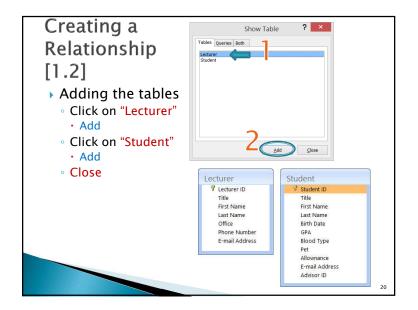
Field Name

- ▶ Can be up to 64 characters long
- Cannot include
 - ! (an exclamation point)
 - [] (brackets)
 - · ` (a grave accent)
 - . (a period)
- Cannot begin with leading spaces

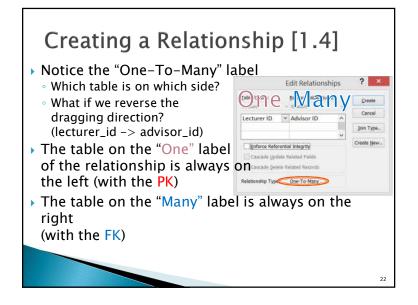


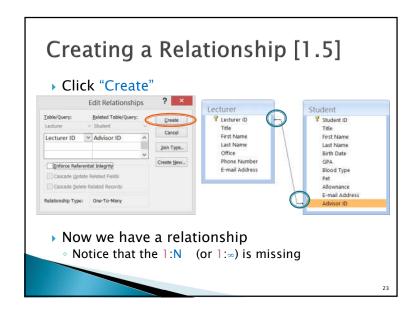


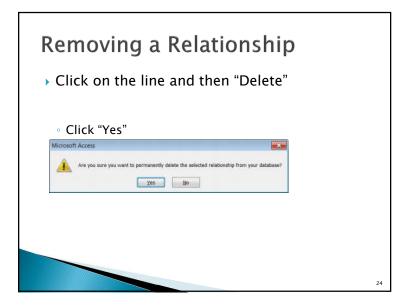


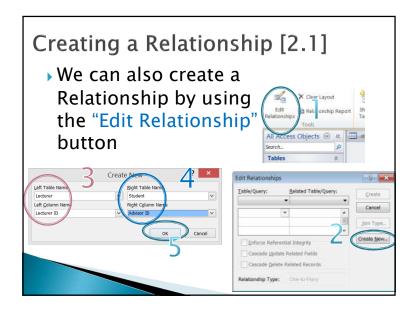


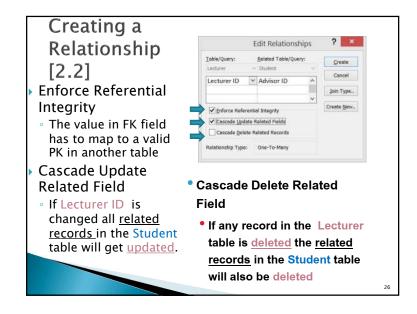


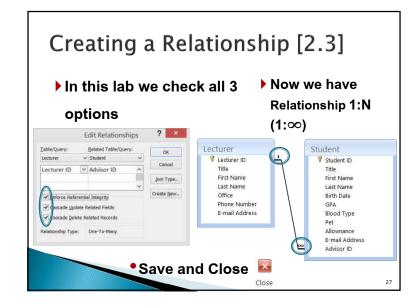


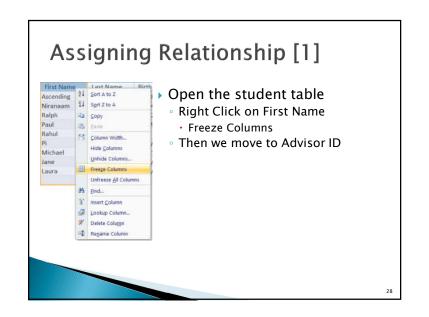


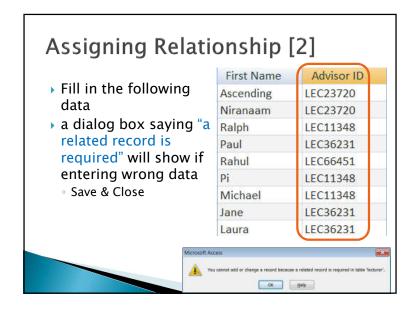


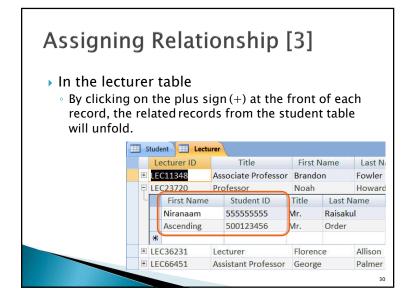


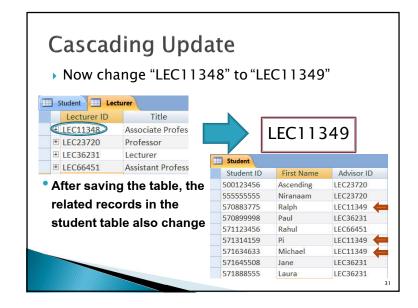


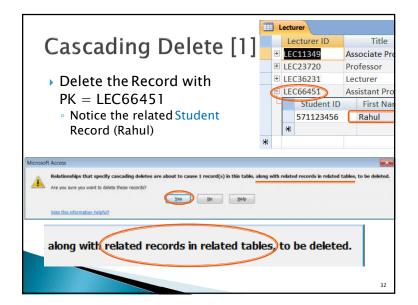


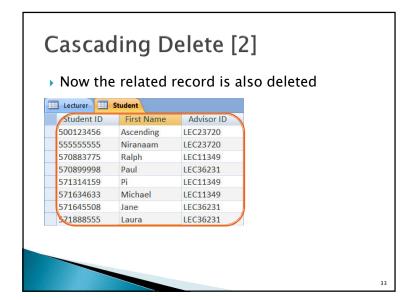


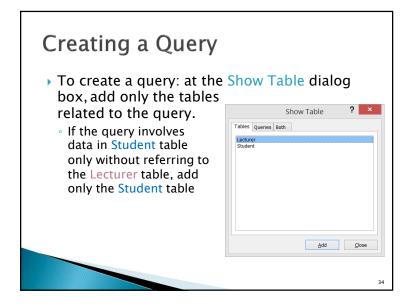


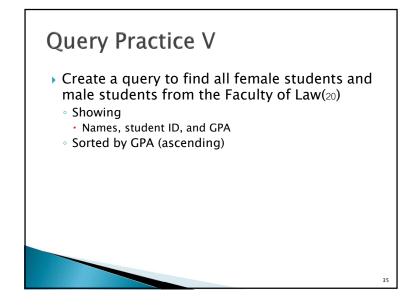


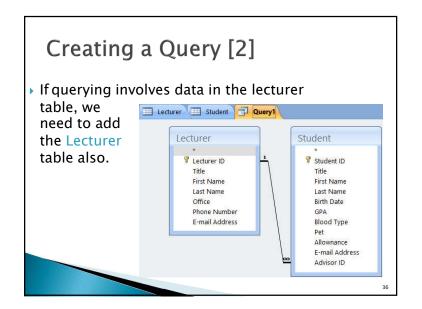












Query Practice VII

- Create a query to list the name of students whose advisors are professors
 - Showing student ID, name, and GPA
 - Sorted by last name descending

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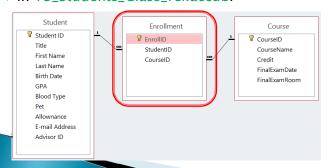
Query Practice VIII

- Create a query for students with GPA higher than 2.75 and having advisors w/ office in building 4 (Office:A4XX)
 - Showing (Students') Name, and the advisors' office number and GPA
 - Remember wildcard? (* and ?)

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Many-to-Many Relationship

- Need to create an intermediate table to handle the relationship
- In 13_Students_Class_rel.accdb:



Summary

- Creating a Relationship
 - $\,{}^{_{\odot}}$ Where to put foreign key?
- Removing a Relationship
- ▶ Enforcing Referential Integrity
- Cascading Update/Delete
- Querying on related tables

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