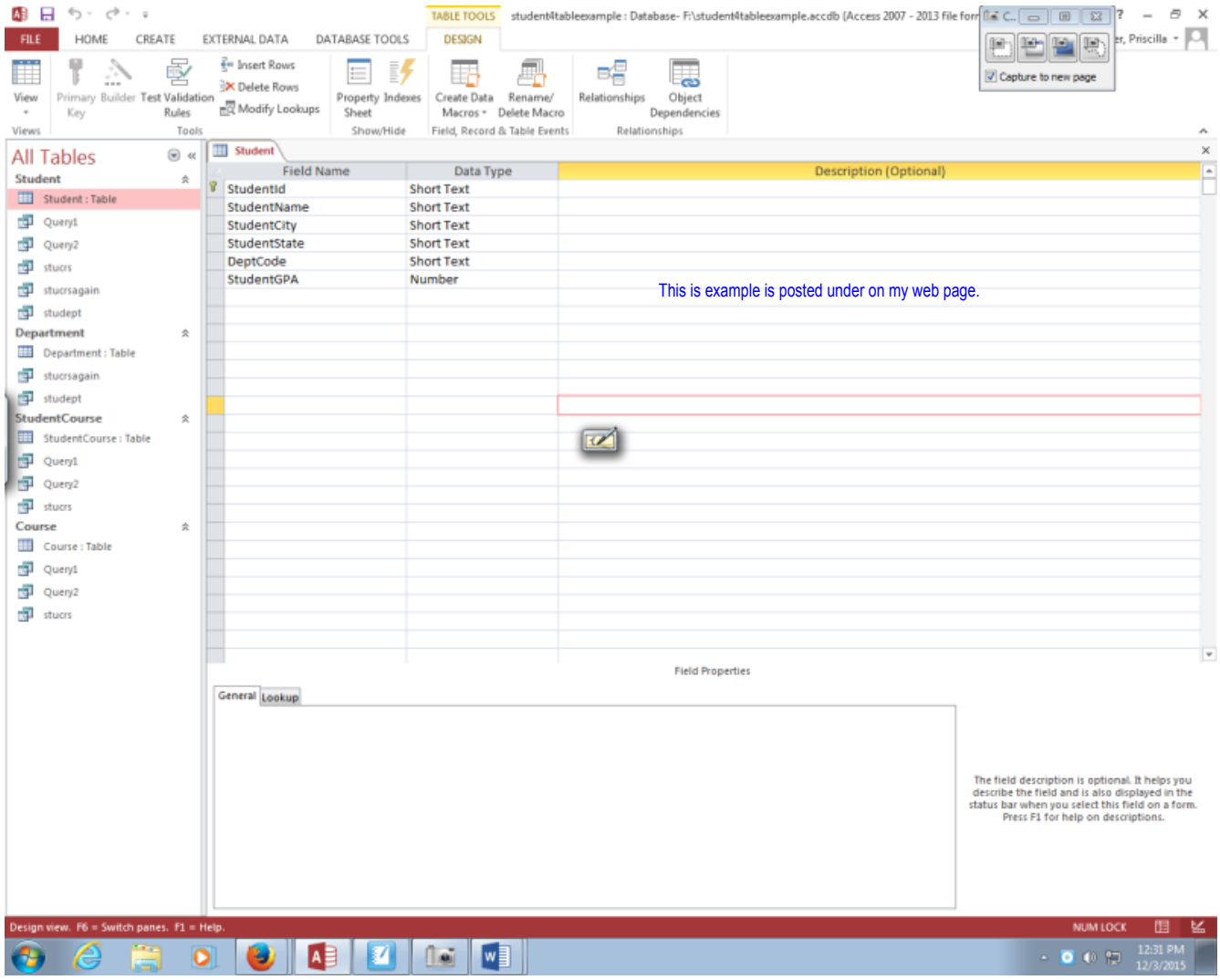


TABLE TOOLS
student4tableexample : Database- F:\student4tableexample.accdb (Access 2007 - 2013 file form
FILE
HOME
CREATE
EXTERNAL DATA
DATABASE TOOLS
DESIGN
Capture to new page
View
Primary Key
Builder
Test Validation Rules
Insert Rows
Delete Rows
Modify Lookups
Property Sheet
Indexes
Create Data Macros
Rename/ Delete Macro
Relationships
Object Dependencies
Views
Tools
Show/Hide
Field, Record & Table Events
Relationships
All Tables
Student
Student : Table
Query1
Query2
stucrs
stucrsagain
studept
Department
Department : Table
stucrsagain
studept
StudentCourse
StudentCourse : Table
Query1
Query2
stucrs
Course
Course : Table
Query1
Query2
stucrs
Student
Field Name
Data Type
Description (Optional)
StudentId
Short Text
StudentName
Short Text
StudentCity
Short Text
StudentState
Short Text
DeptCode
Short Text
StudentGPA
Number
This is example is posted under on my web page.
Field Properties
General
Lookup
The field description is optional. It helps you describe the field and is also displayed in the status bar when you select this field on a form. Press F1 for help on descriptions.
Design view. F6 = Switch panes. F1 = Help.
NUM LOCK
12:31 PM
12/3/2015

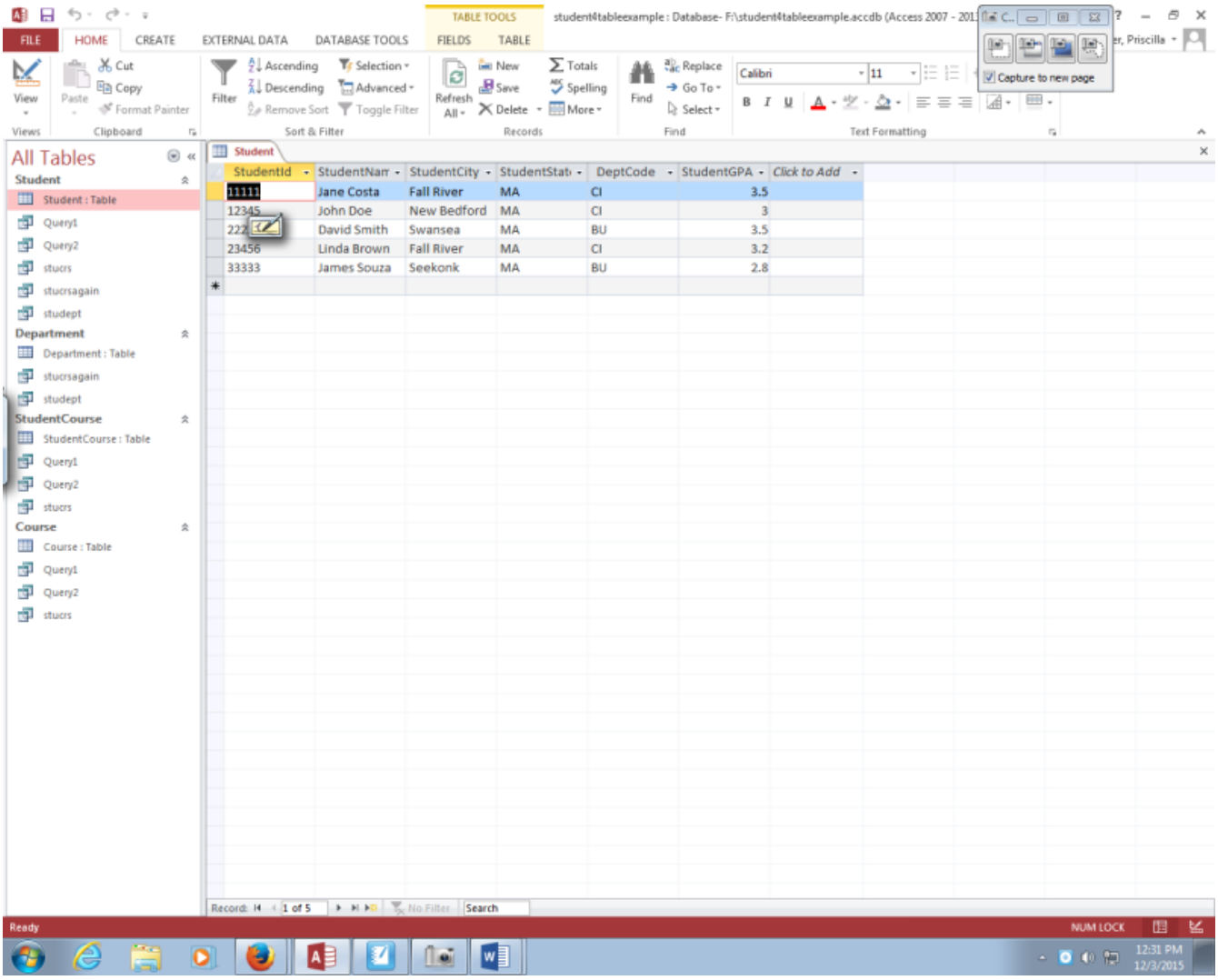


TABLE TOOLS
student4tableexample : Database- F:\student4tableexample.accdb (Access 2007 - 201
FILE
HOME
CREATE
EXTERNAL DATA
DATABASE TOOLS
FIELDS
TABLE
Capture to new page
All Tables
Student
Student : Table
Query1
Query2
stucrs
stucrsagain
studept
Department
Department : Table
stucrsagain
studept
StudentCourse
StudentCourse : Table
Query1
Query2
stucrs
Course
Course : Table
Query1
Query2
stucrs
Student
StudentId
StudentNam
StudentCity
StudentStat
DeptCode
StudentGPA
Click to Add
11111 Jane Costa Fall River MA CI 3.5
12345 John Doe New Bedford MA CI 3
222 David Smith Swansea MA BU 3.5
23456 Linda Brown Fall River MA CI 3.2
33333 James Souza Seekonk MA BU 2.8
Record: 1 of 5
No Filter
Search
Ready
NUM LOCK
12:31 PM
12/3/2015

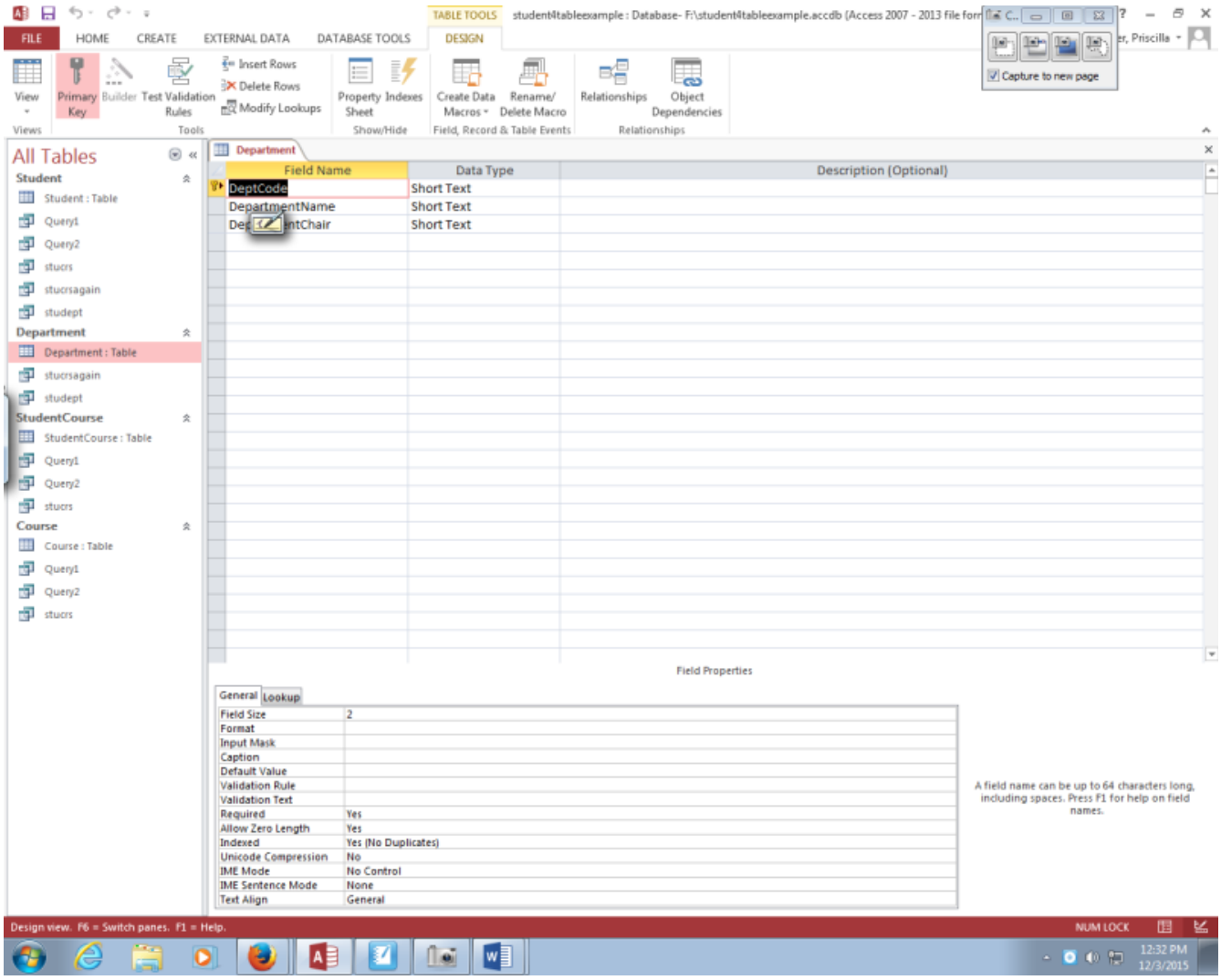


TABLE TOOLS
student4tableexample : Database- F:\student4tableexample.accdb (Access 2007 - 2013 file for
FILE
HOME
CREATE
EXTERNAL DATA
DATABASE TOOLS
DESIGN
Capture to new page
View
Primary Key
Builder
Test Validation Rules
Insert Rows
Delete Rows
Modify Lookups
Property Sheet
Indexes
Create Data Macros
Rename/ Delete Macro
Relationships
Object Dependencies
Views
Tools
Show/Hide
Field, Record & Table Events
Relationships
All Tables
Student
Student : Table
Query1
Query2
stucrs
stucrsagain
studept
Department
Department : Table
stucrsagain
studept
StudentCourse
StudentCourse : Table
Query1
Query2
stucrs
Course
Course : Table
Query1
Query2
stucrs
Department
Field Name
Data Type
Description (Optional)
DeptCode
Short Text
DepartmentName
Short Text
Short Text
Field Properties
General
Lookup
Field Size
2
Format
Input Mask
Caption
Default Value
Validation Rule
Validation Text
Required
Yes
Allow Zero Length
Yes
Indexed
Yes (No Duplicates)
Unicode Compression
No
IME Mode
No Control
IME Sentence Mode
None
Text Align
General
A field name can be up to 64 characters long, including spaces. Press F1 for help on field names.
Design view. F6 = Switch panes. F1 = Help.
NUM LOCK
12:32 PM
12/3/2015

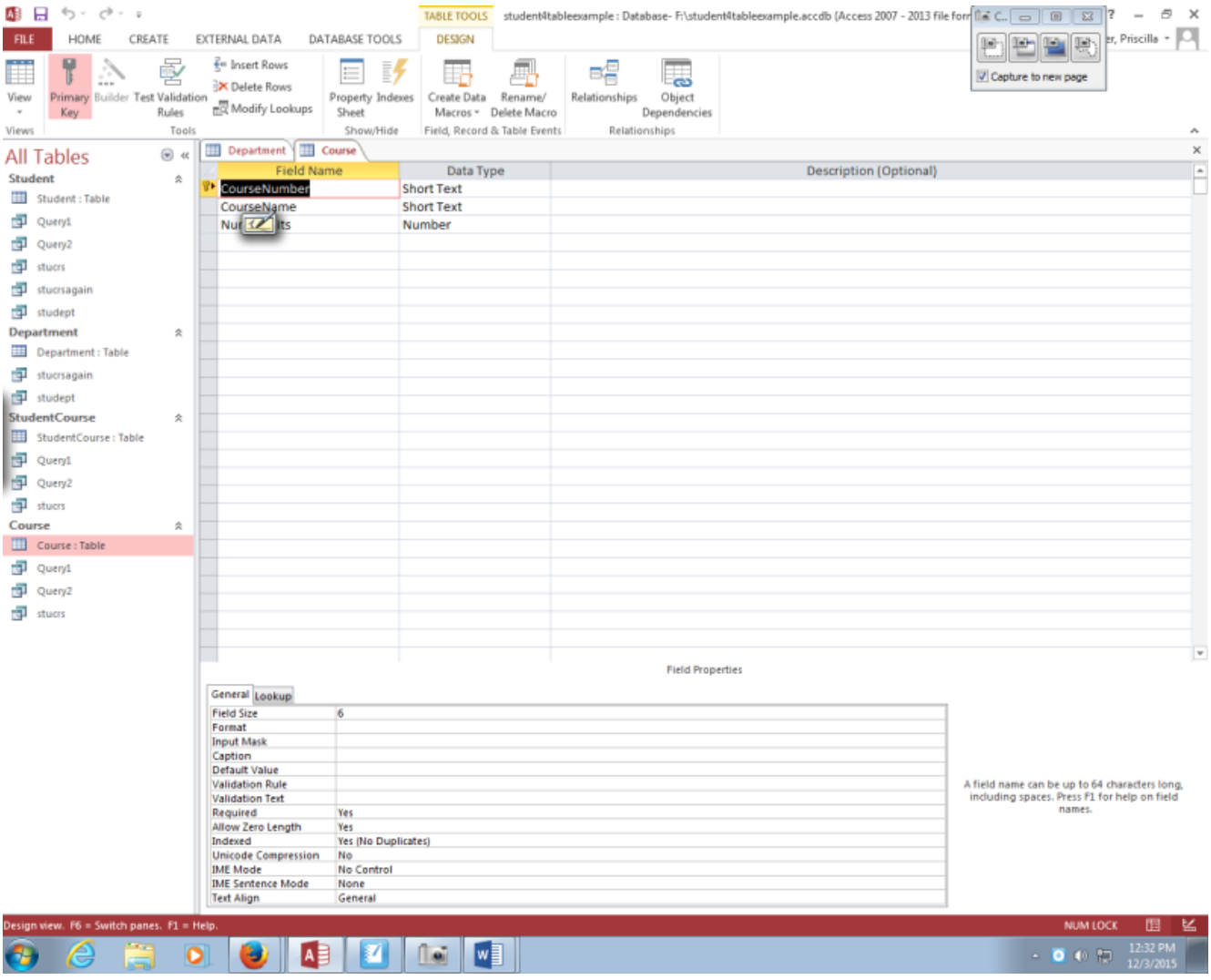
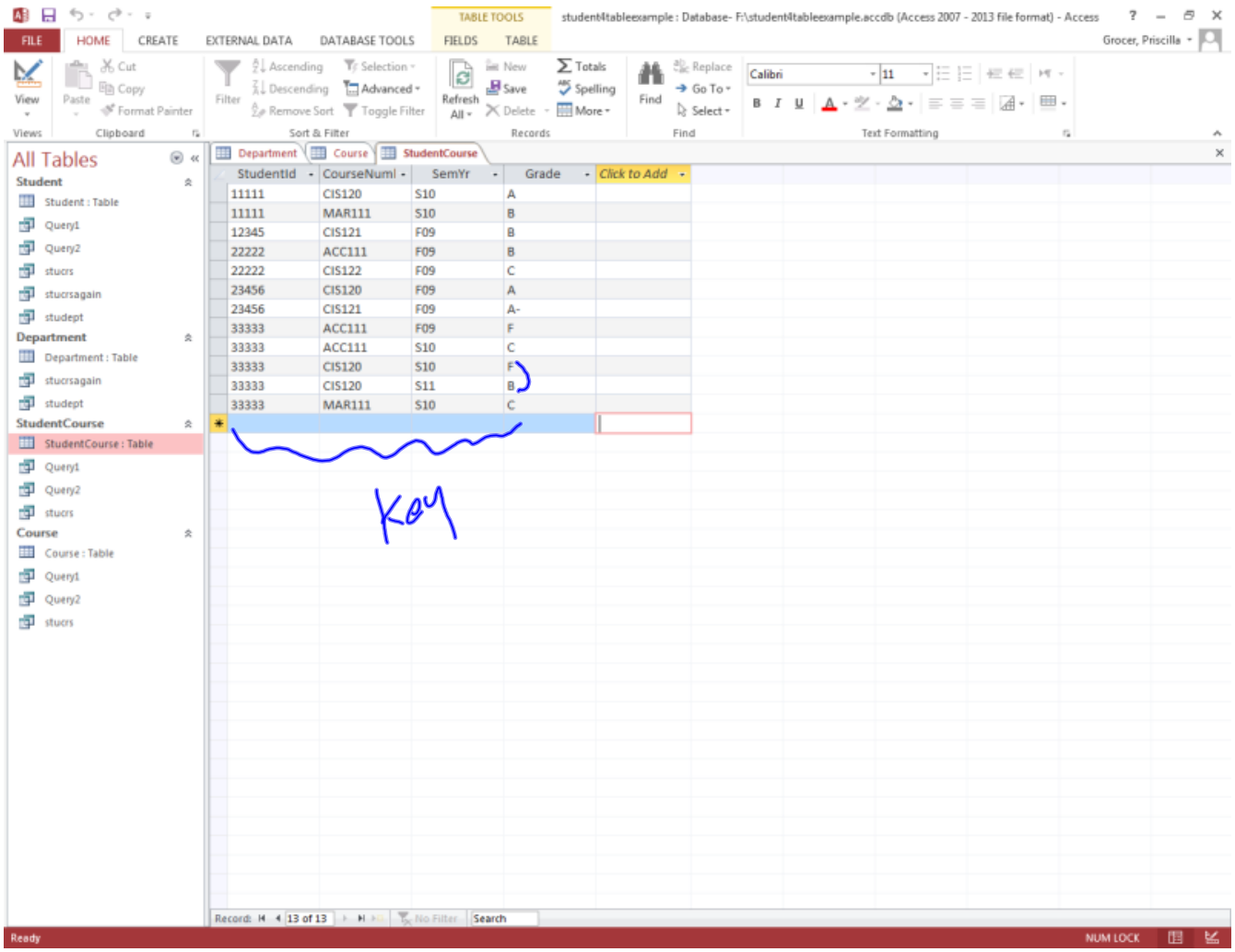


TABLE TOOLS
student4tableexample : Database- F:\student4tableexample.accdb (Access 2007 - 2013 file form
FILE
HOME
CREATE
EXTERNAL DATA
DATABASE TOOLS
DESIGN
Capture to new page
View
Primary Key
Builder
Test Validation Rules
Insert Rows
Delete Rows
Modify Lookups
Property Sheet
Indexes
Create Data Macros
Rename/ Delete Macro
Relationships
Object Dependencies
Views
Tools
Show/Hide
Field, Record & Table Events
Relationships
All Tables
Student
Student : Table
Query1
Query2
stucrs
stucrsagain
studept
Department
Department : Table
stucrsagain
studept
StudentCourse
StudentCourse : Table
Query1
Query2
stucrs
Course
Course : Table
Query1
Query2
stucrs
Department
Course
Field Name
Data Type
Description (Optional)
CourseNumber
Short Text
CourseName
Short Text
Number
Field Properties
General
Lookup
Field Size 6
Format
Input Mask
Caption
Default Value
Validation Rule
Validation Text
Required Yes
Allow Zero Length Yes
Indexed Yes (No Duplicates)
Unicode Compression No
IME Mode No Control
IME Sentence Mode None
Text Align General
A field name can be up to 64 characters long, including spaces. Press F1 for help on field names.
Design view. F6 = Switch panes. F1 = Help.
NUM LOCK
12:32 PM
12/3/2015


student4tableexample : Database- F:\student4tableexample.accdb (Access 2007 - 2013 file format) - Access
Grocer, Priscilla
FILE
HOME
CREATE
EXTERNAL DATA
DATABASE TOOLS
TABLE TOOLS
FIELDS
TABLE
All Tables
Student
Student : Table
Query1
Query2
stucrs
stucrsagain
studept
Department
Department : Table
stucrsagain
studept
StudentCourse
StudentCourse : Table
Query1
Query2
stucrs
Course
Course : Table
Query1
Query2
stucrs
Department
Course
StudentCourse
StudentId
CourseNuml
SemYr
Grade
Click to Add
11111 CIS120 S10 A
11111 MAR111 S10 B
12345 CIS121 F09 B
22222 ACC111 F09 B
22222 CIS122 F09 C
23456 CIS120 F09 A
23456 CIS121 F09 A-
33333 ACC111 F09 F
33333 ACC111 S10 C
33333 CIS120 S10 F
33333 CIS120 S11 B
33333 MAR111 S10 C
Key
Record: 13 of 13
No Filter
Search
Ready
NUM LOCK

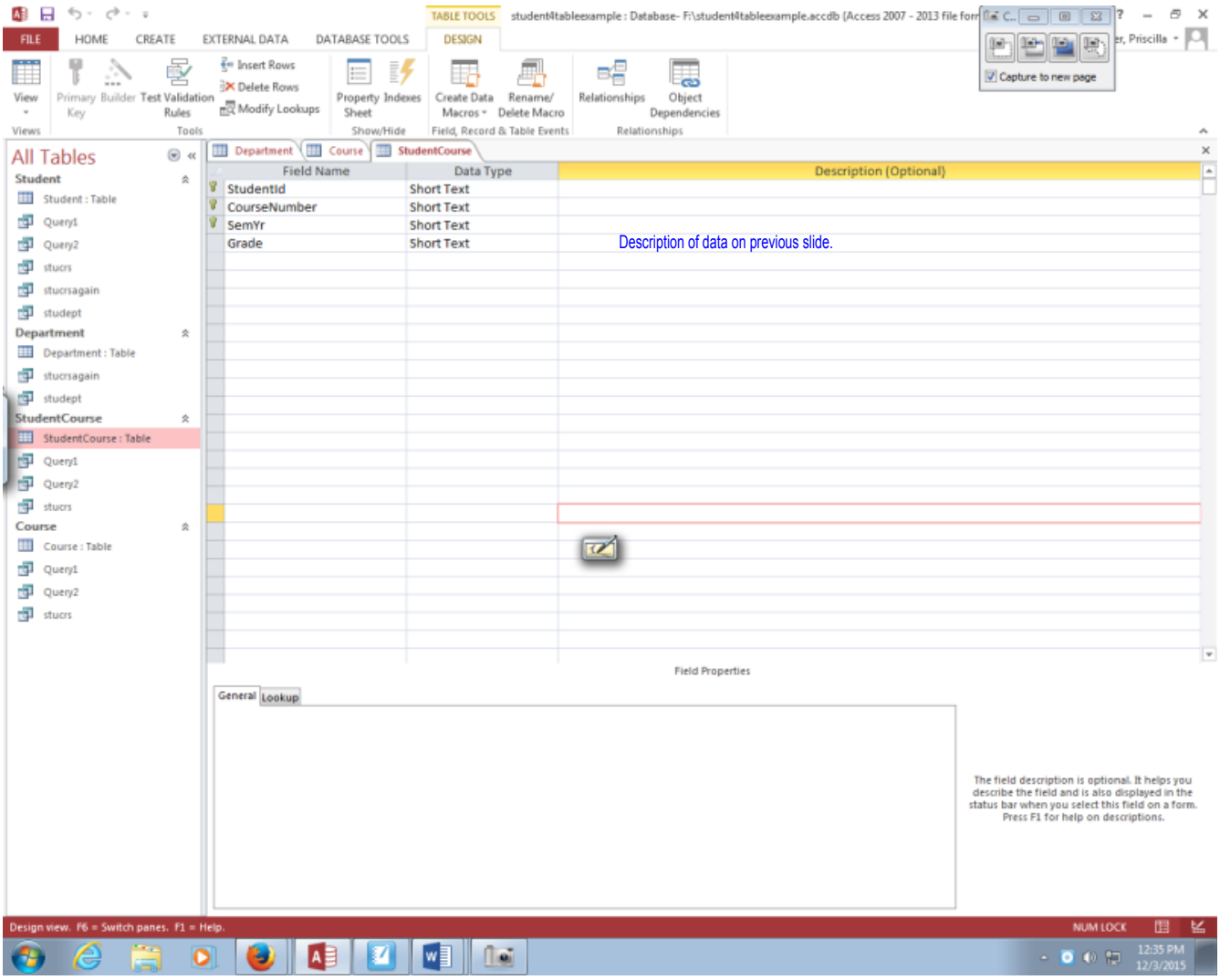
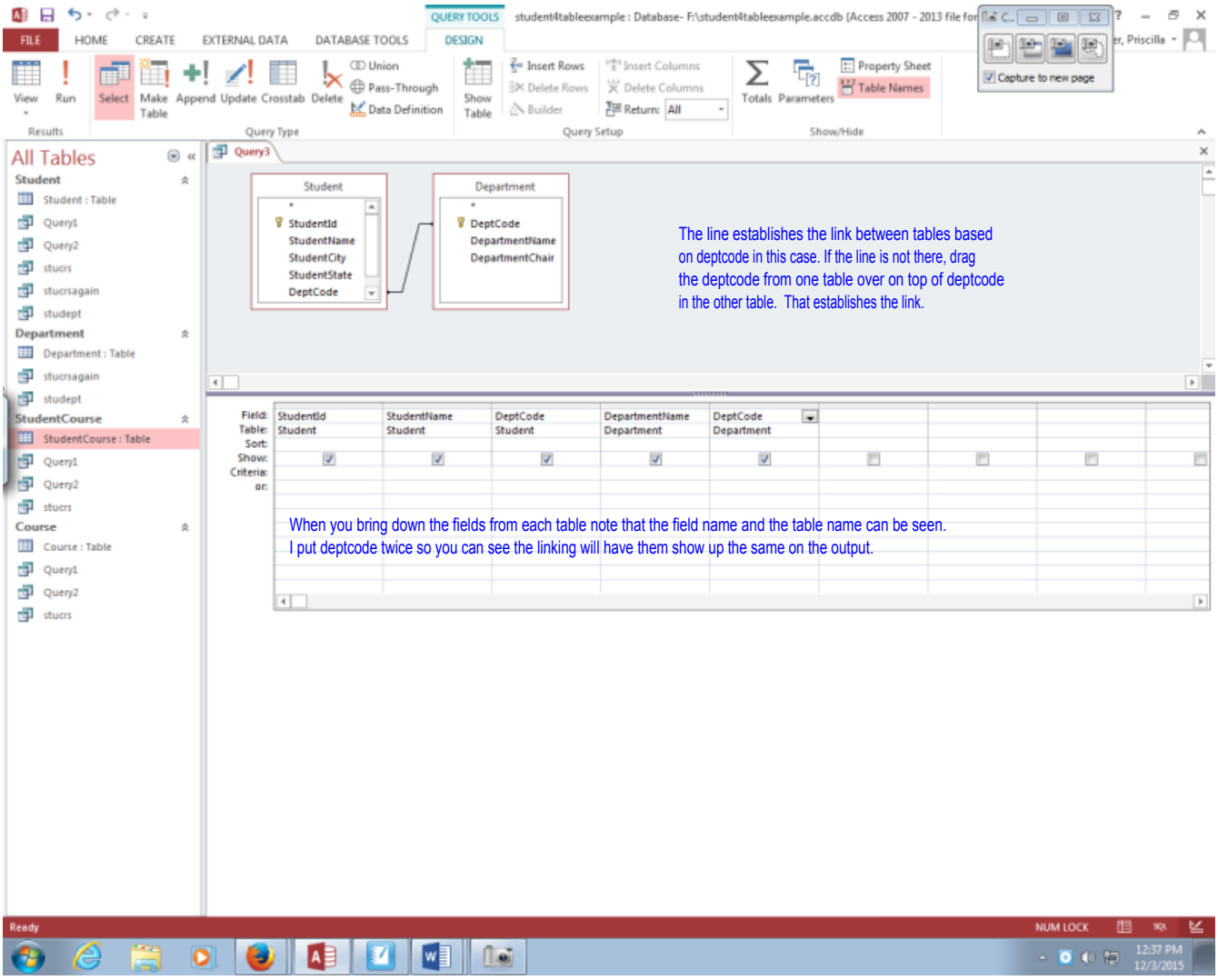
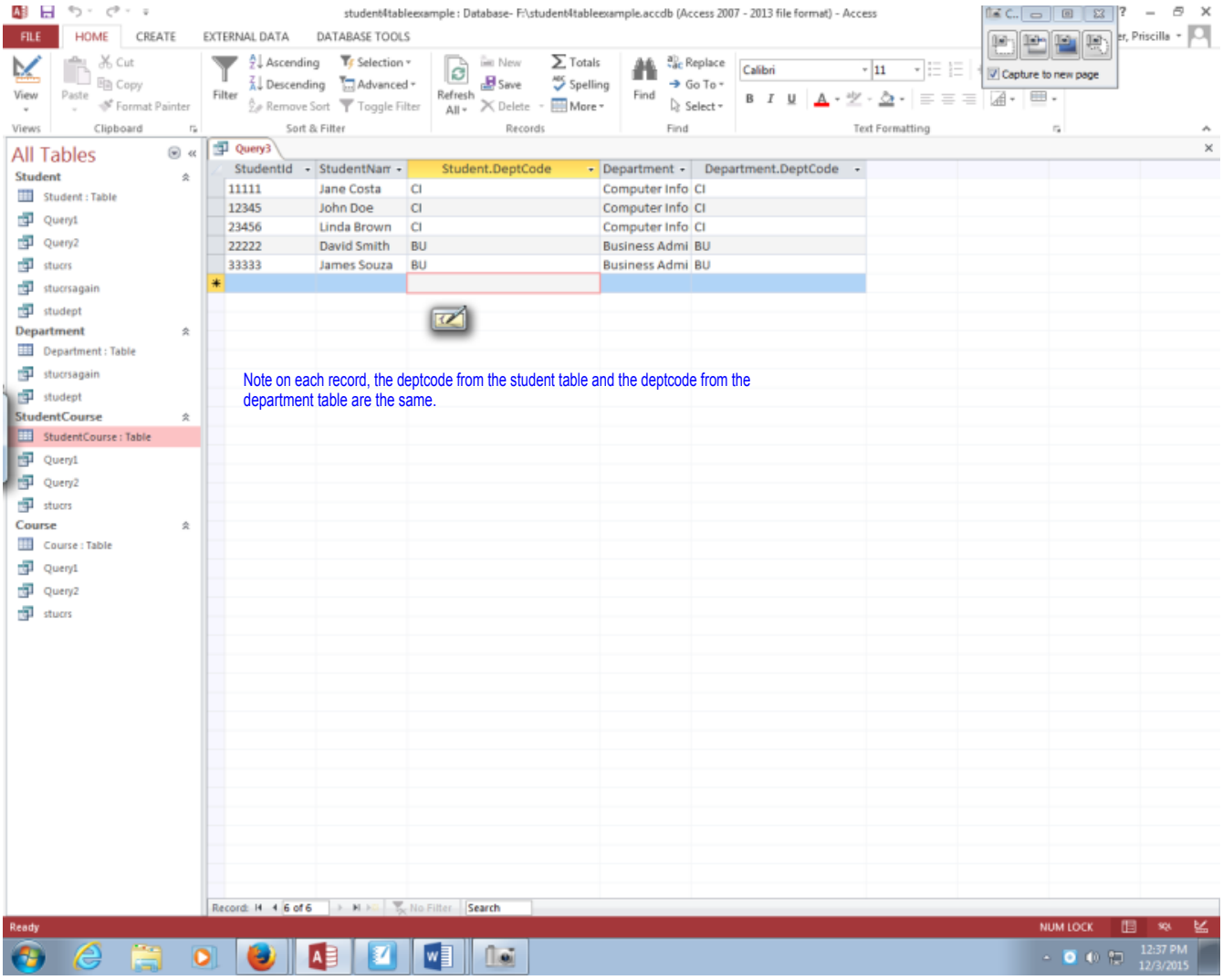
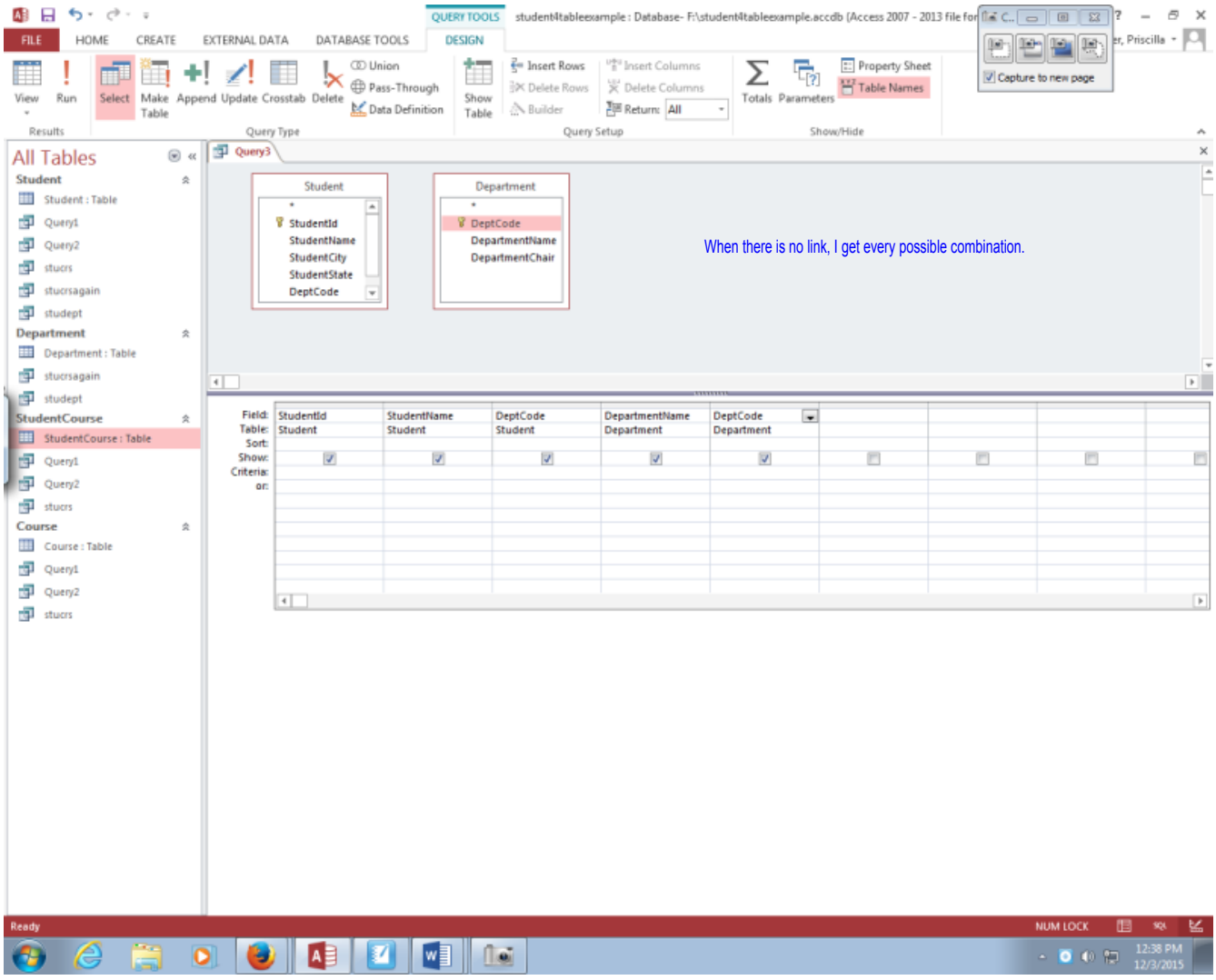
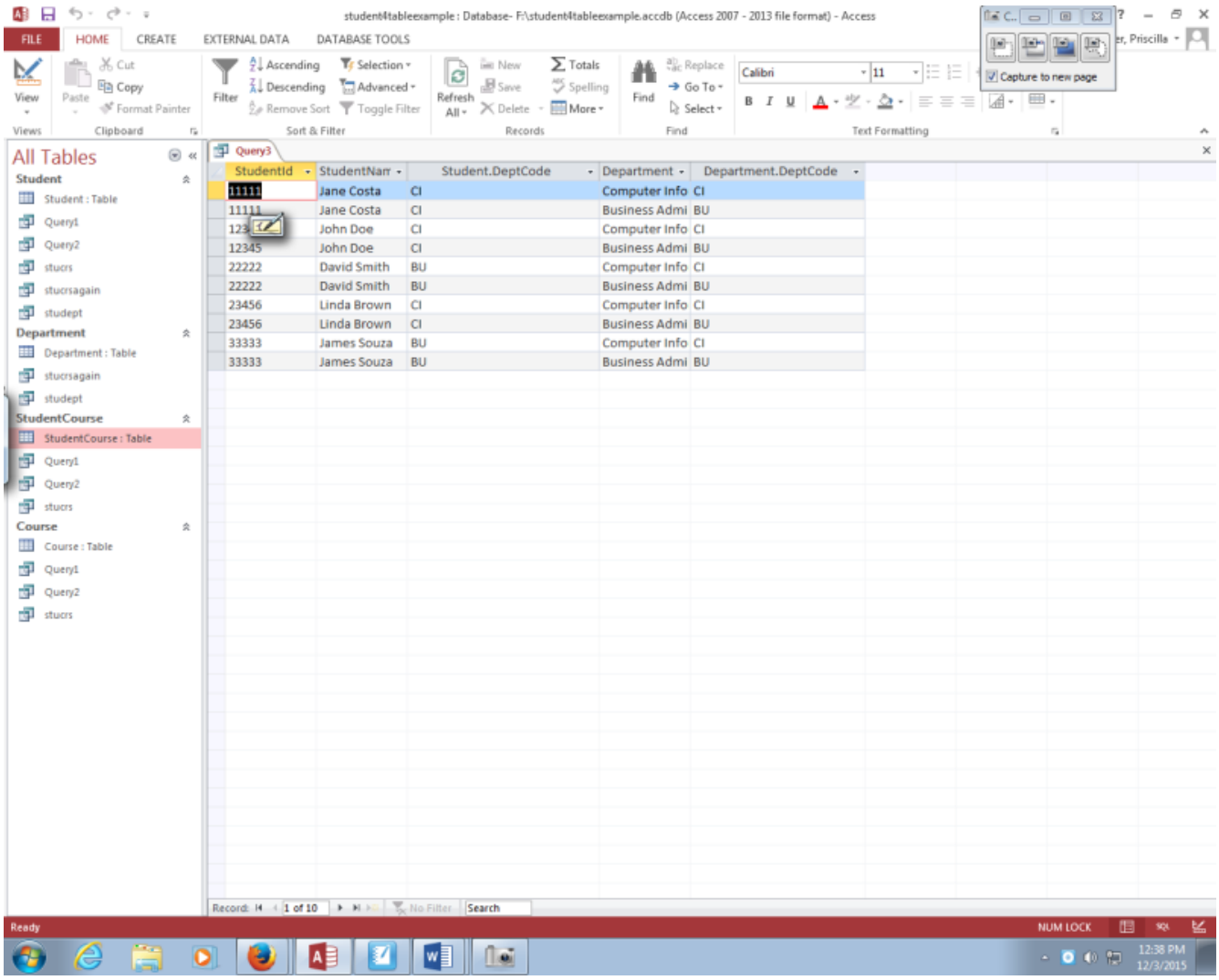


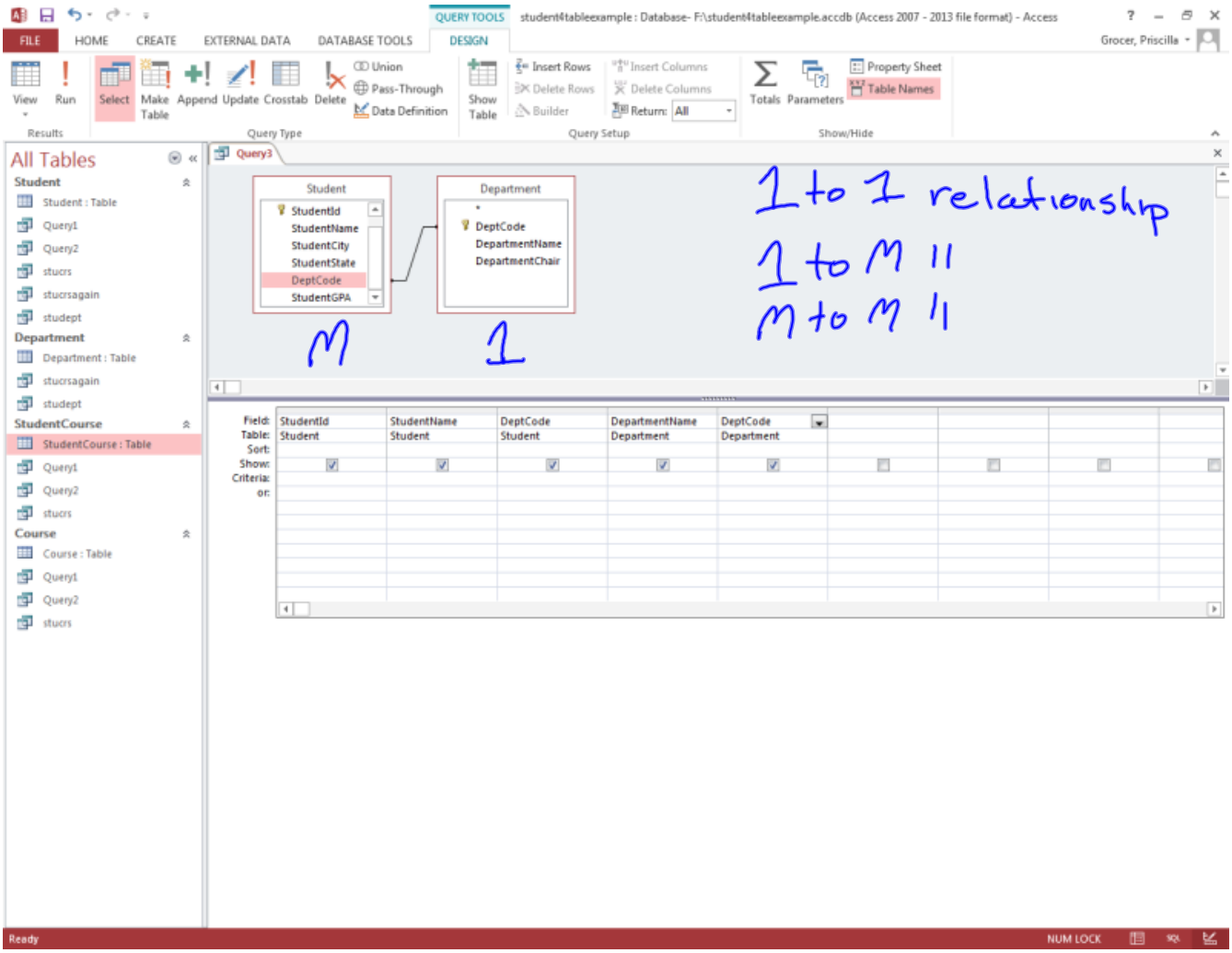
TABLE TOOLS
FILE
HOME
CREATE
EXTERNAL DATA
DATABASE TOOLS
DESIGN
All Tables
Student
Student : Table
Query1
Query2
stucrs
stucrsagain
studept
Department
Department : Table
stucrsagain
studept
StudentCourse
StudentCourse : Table
Query1
Query2
stucrs
Course
Course : Table
Query1
Query2
stucrs
Department
Course
StudentCourse
Field Name
Data Type
Description (Optional)
StudentId
Short Text
CourseNumber
Short Text
SemYr
Short Text
Grade
Short Text
Description of data on previous slide.
Field Properties
General
Lookup
The field description is optional. It helps you describe the field and is also displayed in the status bar when you select this field on a form. Press F1 for help on descriptions.
Design view. F6 = Switch panes. F1 = Help.
NUM LOCK
12:35 PM
12/3/2015

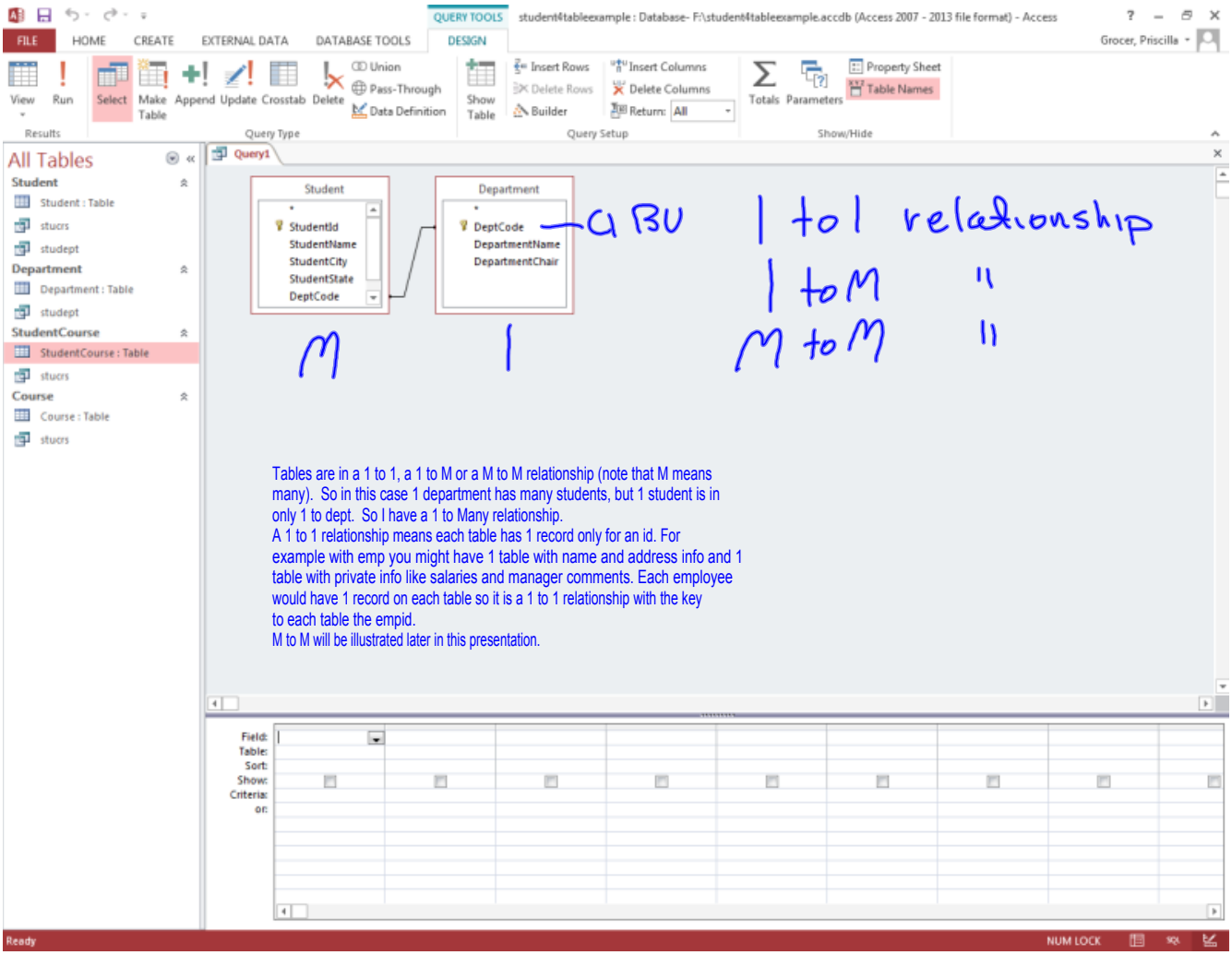

QUERY TOOLS
student4tableexample : Database- F:\student4tableexample.accdb (Access 2007 - 2013 file for
FILE
HOME
CREATE
EXTERNAL DATA
DATABASE TOOLS
DESIGN
View
Run
Select
Make Table
Append
Update
Crosstab
Delete
Union
Pass-Through
Data Definition
Show Table
Insert Rows
Delete Rows
Builder
Insert Columns
Delete Columns
Return: All
Totals
Parameters
Property Sheet
Table Names
Capture to new page
Results
Query Type
Query Setup
Show/Hide
All Tables
Student
Student : Table
Query1
Query2
stucrs
stucrsagain
studept
Department
Department : Table
stucrsagain
studept
StudentCourse
StudentCourse : Table
Query1
Query2
stucrs
Course
Course : Table
Query1
Query2
stucrs
Query3
Student
StudentId
StudentName
StudentCity
StudentState
DeptCode
Department
DeptCode
DepartmentName
DepartmentChair
The line establishes the link between tables based on deptcode in this case. If the line is not there, drag the deptcode from one table over on top of deptcode in the other table. That establishes the link.
Field:
Table:
Sort:
Show:
Criteria:
or:
StudentId
Student
StudentName
Student
DeptCode
Student
DepartmentName
Department
DeptCode
Department
When you bring down the fields from each table note that the field name and the table name can be seen.
I put deptcode twice so you can see the linking will have them show up the same on the output.
Ready
NUM LOCK
12:37 PM
12/3/2015

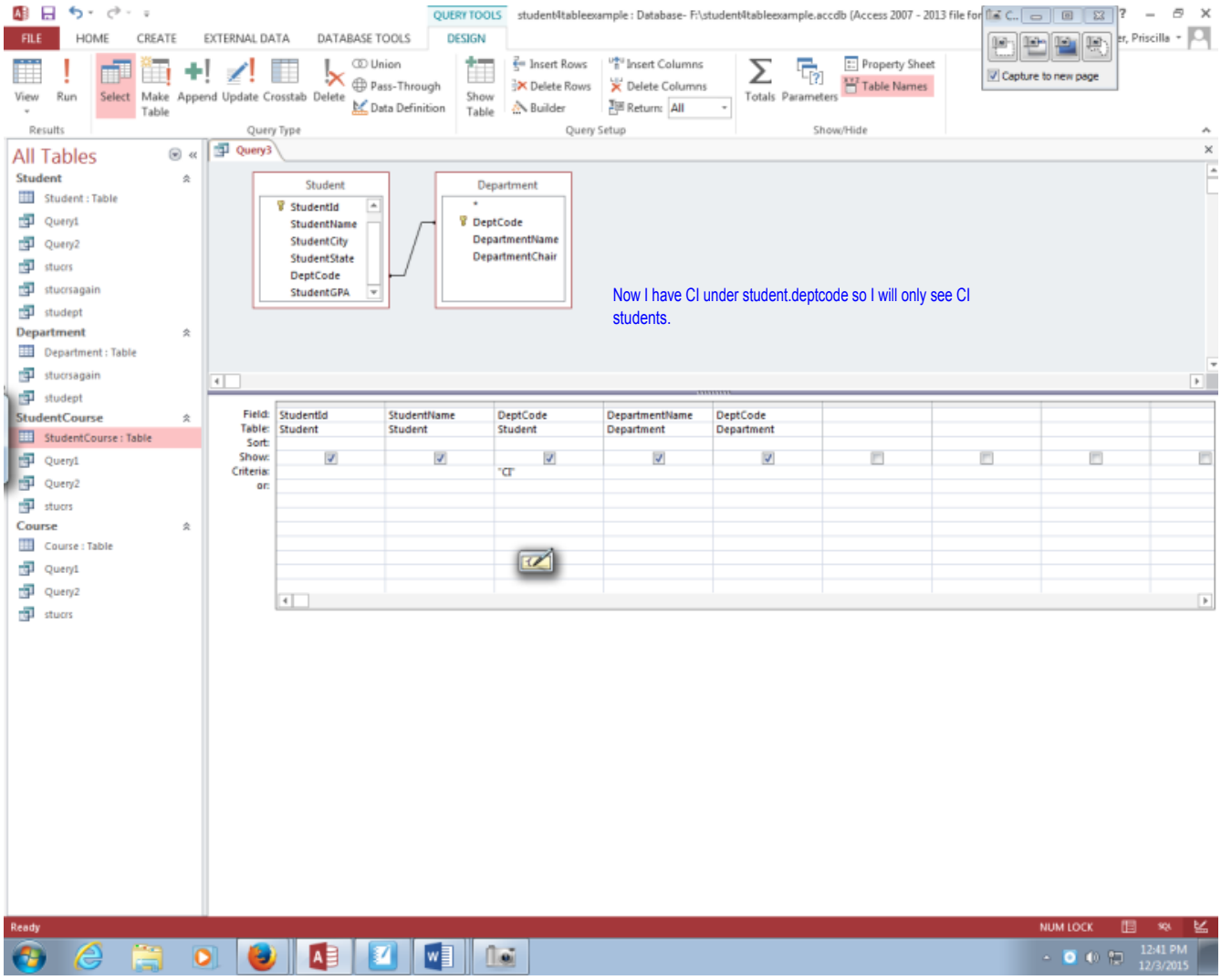

student4tableexample : Database- F:\student4tableexample.accdb (Access 2007 - 2013 file format) - Access
FILE
HOME
CREATE
EXTERNAL DATA
DATABASE TOOLS
All Tables
Student
Student : Table
Query1
Query2
stucrs
stucrsagain
studept
Department
Department : Table
stucrsagain
studept
StudentCourse
StudentCourse : Table
Query1
Query2
stucrs
Course
Course : Table
Query1
Query2
stucrs
Query3
StudentId
StudentNam
Student.DeptCode
Department
Department.DeptCode
11111 Jane Costa CI Computer Info CI
12345 John Doe CI Computer Info CI
23456 Linda Brown CI Computer Info CI
22222 David Smith BU Business Admi BU
33333 James Souza BU Business Admi BU
Note on each record, the deptcode from the student table and the deptcode from the department table are the same.
Record: 6 of 6
Search
Ready
NUM LOCK
12:37 PM
12/3/2015

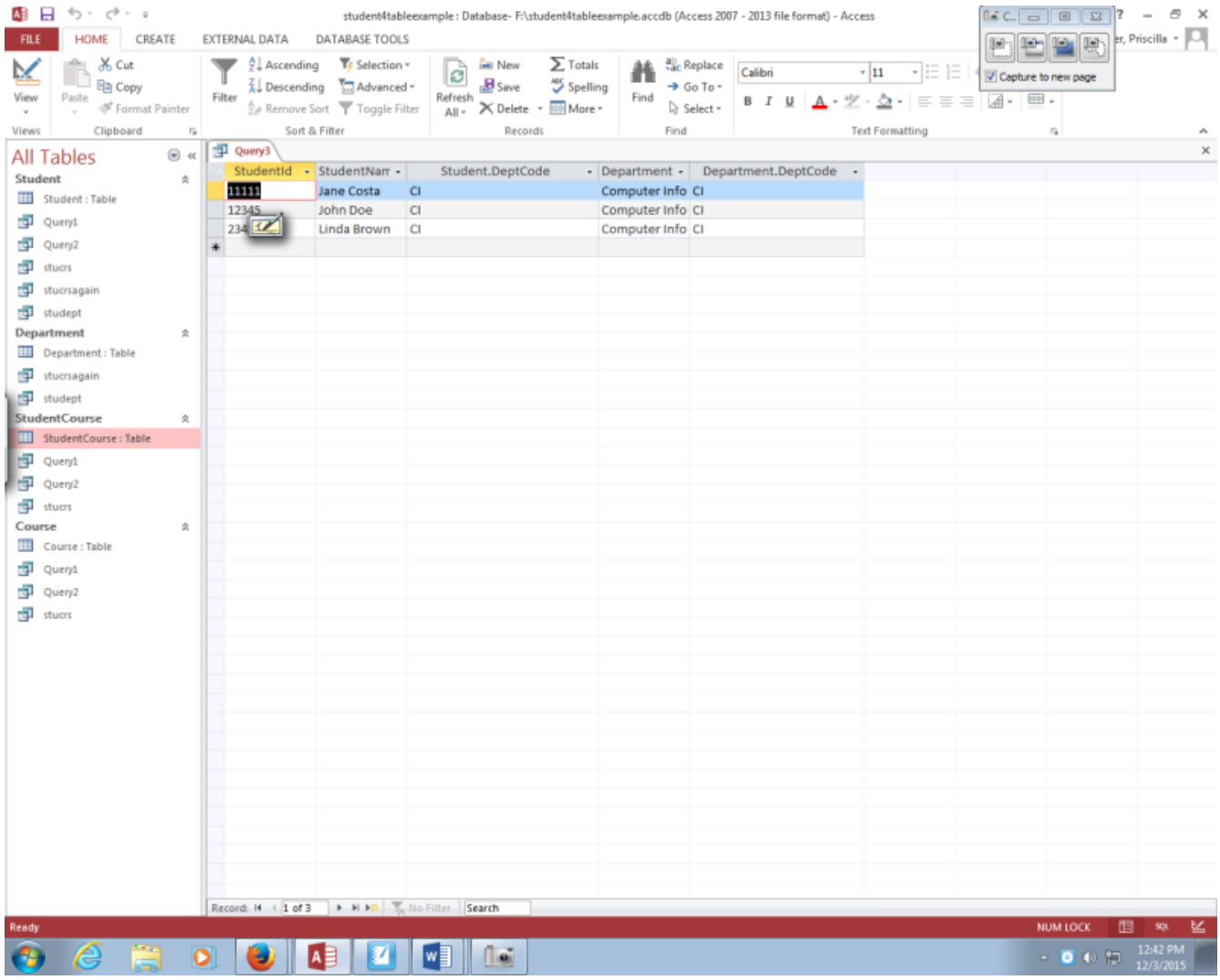

QUERY TOOLS
FILE
HOME
CREATE
EXTERNAL DATA
DATABASE TOOLS
DESIGN
All Tables
Student
Student : Table
Query1
Query2
stucrs
stucrsagain
studept
Department
Department : Table
stucrsagain
studept
StudentCourse
StudentCourse : Table
Query1
Query2
stucrs
Course
Course : Table
Query1
Query2
stucrs
Query3
Student
StudentId
StudentName
StudentCity
StudentState
DeptCode
Department
DeptCode
DepartmentName
DepartmentChair
When there is no link, I get every possible combination.
Field:
Table:
Sort:
Show:
Criteria:
or:
StudentId
StudentName
DeptCode
DepartmentName
DeptCode
Student
Department
Ready
NUM LOCK

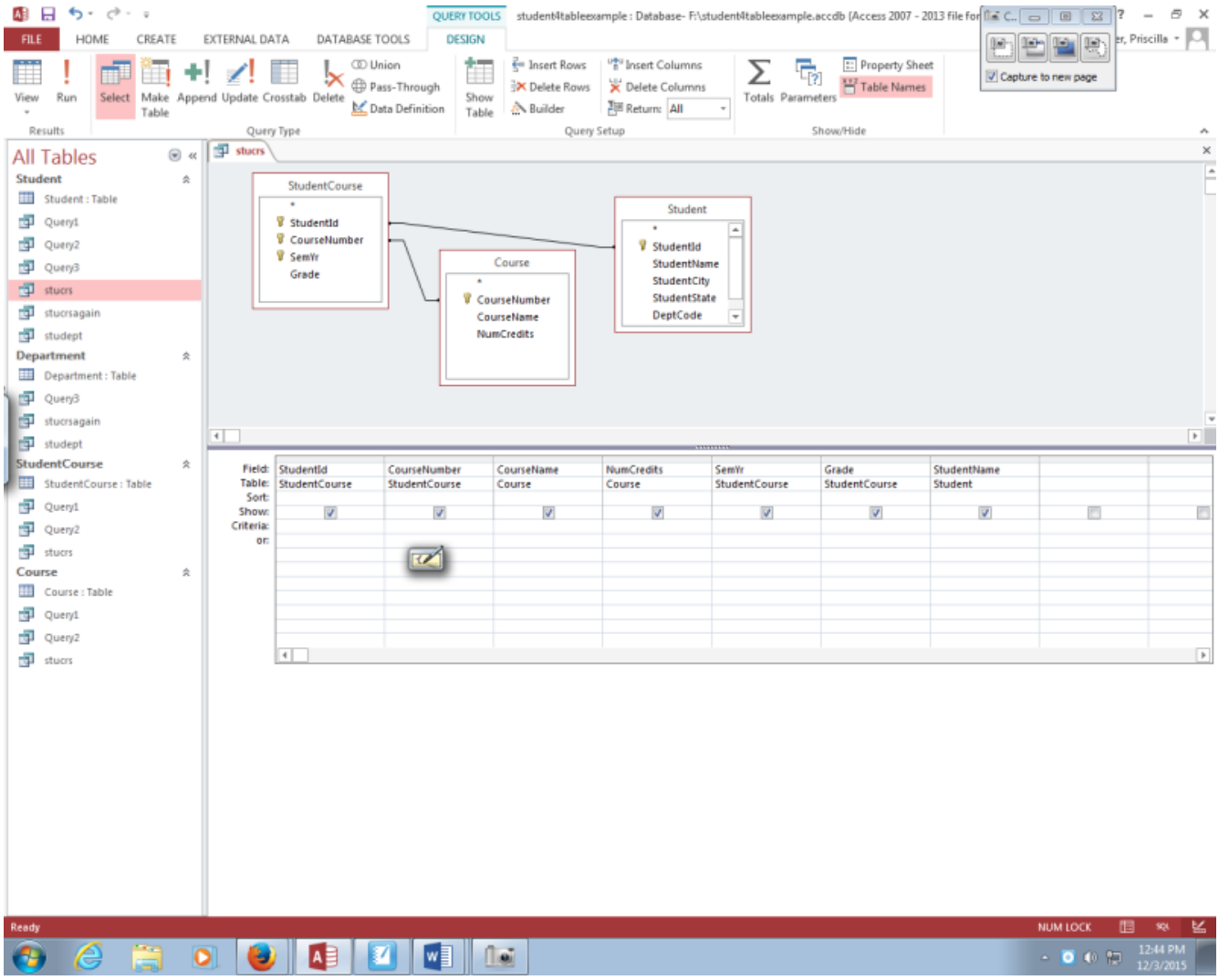

student4tableexample : Database- F:\student4tableexample.accdb (Access 2007 - 2013 file format) - Access
FILE
HOME
CREATE
EXTERNAL DATA
DATABASE TOOLS
All Tables
Student
Student : Table
Query1
Query2
stucrs
stucrsagain
studept
Department
Department : Table
stucrsagain
studept
StudentCourse
StudentCourse : Table
Query1
Query2
stucrs
Course
Course : Table
Query1
Query2
stucrs
Query3
StudentId
StudentNam
Student.DeptCode
Department
Department.DeptCode
11111 Jane Costa CI Computer Info CI
11111 Jane Costa CI Business Admi BU
123 John Doe CI Computer Info CI
12345 John Doe CI Business Admi BU
22222 David Smith BU Computer Info CI
22222 David Smith BU Business Admi BU
23456 Linda Brown CI Computer Info CI
23456 Linda Brown CI Business Admi BU
33333 James Souza BU Computer Info CI
33333 James Souza BU Business Admi BU
Record: 1 of 10
Search
Ready
NUM LOCK
12:38 PM
12/3/2015

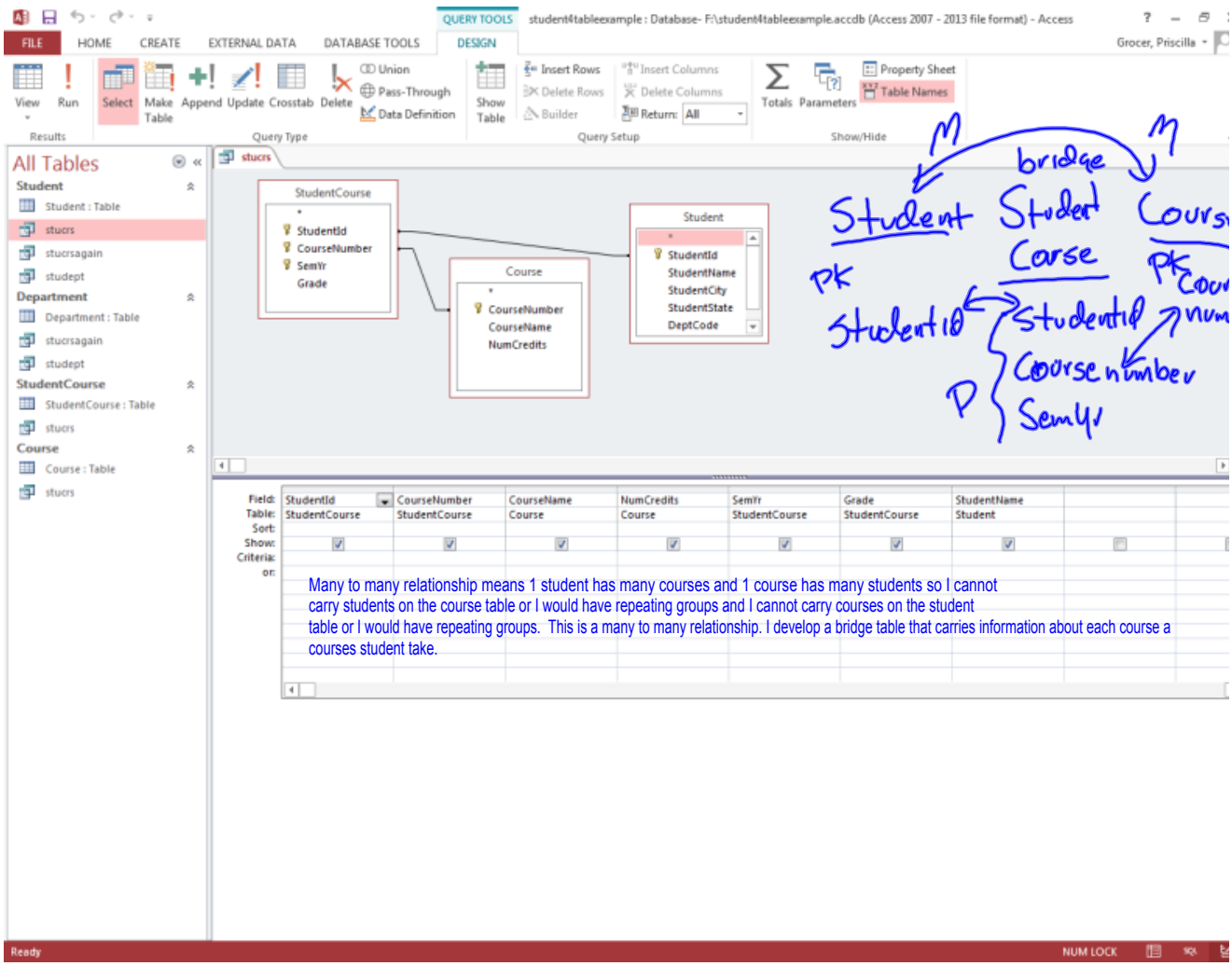

QUERY TOOLS
student4tableexample : Database- F:\student4tableexample.accdb (Access 2007 - 2013 file format) - Access
FILE
HOME
CREATE
EXTERNAL DATA
DATABASE TOOLS
DESIGN
Grocer, Priscilla
View
Run
Select
Make Table
Append
Update
Crosstab
Delete
Union
Pass-Through
Data Definition
Show Table
Insert Rows
Delete Rows
Builder
Insert Columns
Delete Columns
Return: All
Totals
Parameters
Property Sheet
Table Names
Results
Query Type
Query Setup
Show/Hide
All Tables
Student
Student : Table
Query1
Query2
stucrs
stucrsagain
studept
Department
Department : Table
stucrsagain
studept
StudentCourse
StudentCourse : Table
Query1
Query2
stucrs
Course
Course : Table
Query1
Query2
stucrs
Query3
Student
StudentId
StudentName
StudentCity
StudentState
DeptCode
StudentGPA
Department
DeptCode
DepartmentName
DepartmentChair
M
1
1 to 1 relationship
1 to M ||
M to M ||
Field:
Table:
Sort:
Show:
Criteria:
or:
StudentId
StudentName
DeptCode
DepartmentName
DeptCode
Student
Department
Ready
NUM LOCK

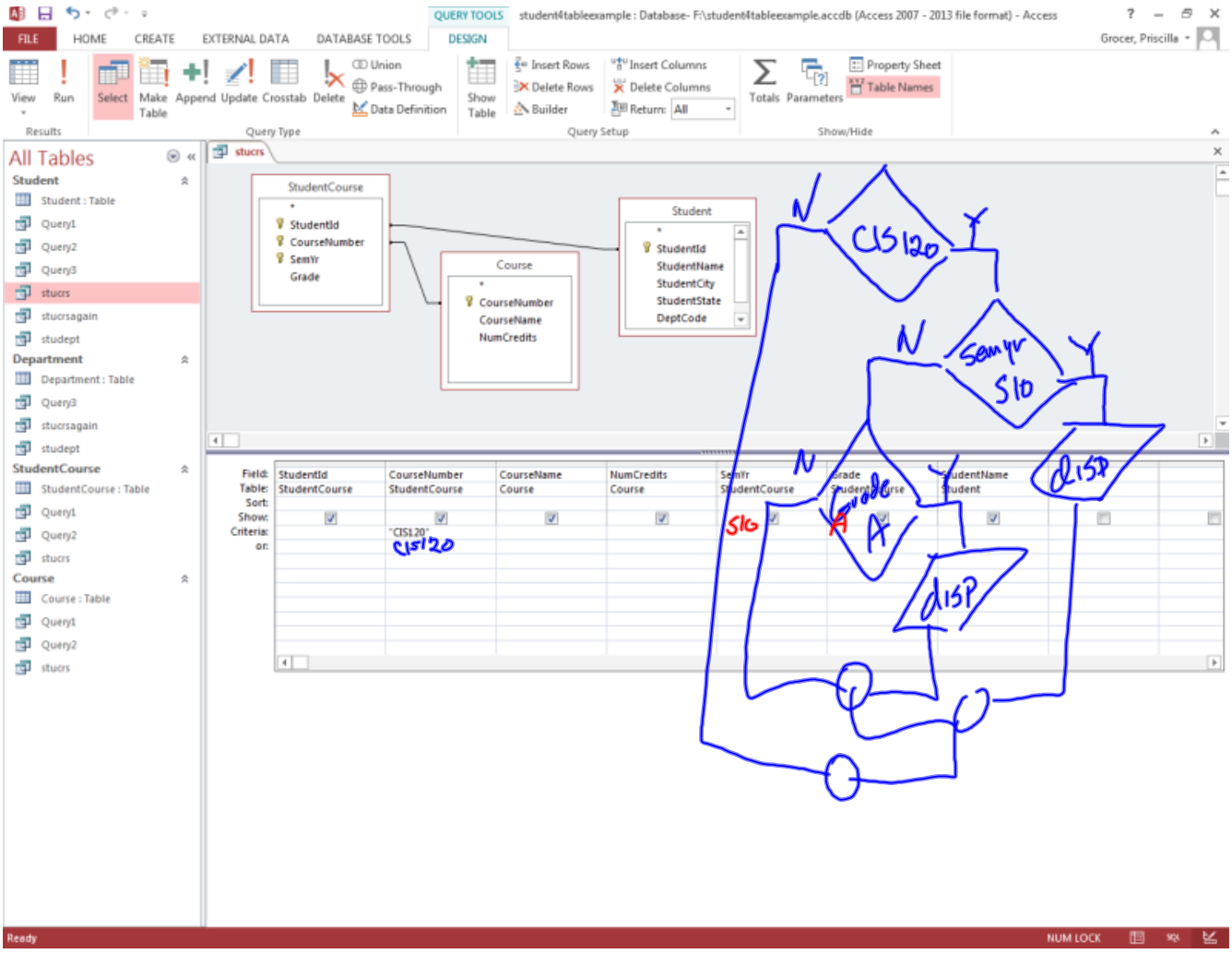

QUERY TOOLS
student4tableexample : Database- F:\student4tableexample.accdb (Access 2007 - 2013 file format) - Access
FILE
HOME
CREATE
EXTERNAL DATA
DATABASE TOOLS
DESIGN
Grocer, Priscilla
View
Run
Select
Make Table
Append
Update
Crosstab
Delete
Union
Pass-Through
Data Definition
Show Table
Insert Rows
Delete Rows
Builder
Insert Columns
Delete Columns
Return: All
Totals
Parameters
Property Sheet
Table Names
Results
Query Type
Query Setup
Show/Hide
All Tables
Student
Student : Table
stucrs
studept
Department
Department : Table
studept
StudentCourse
StudentCourse : Table
stucrs
Course
Course : Table
stucrs
Query1
Student
StudentId
StudentName
StudentCity
StudentState
DeptCode
Department
DeptCode
DepartmentName
DepartmentChair
a BU
1 to 1 relationship
1 to M "
M to M "
M
1
Tables are in a 1 to 1, a 1 to M or a M to M relationship (note that M means many). So in this case 1 department has many students, but 1 student is in only 1 to dept. So I have a 1 to Many relationship.
A 1 to 1 relationship means each table has 1 record only for an id. For example with emp you might have 1 table with name and address info and 1 table with private info like salaries and manager comments. Each employee would have 1 record on each table so it is a 1 to 1 relationship with the key to each table the empid.
M to M will be illustrated later in this presentation.
Field:
Table:
Sort:
Show:
Criteria:
or:
Ready
NUM LOCK

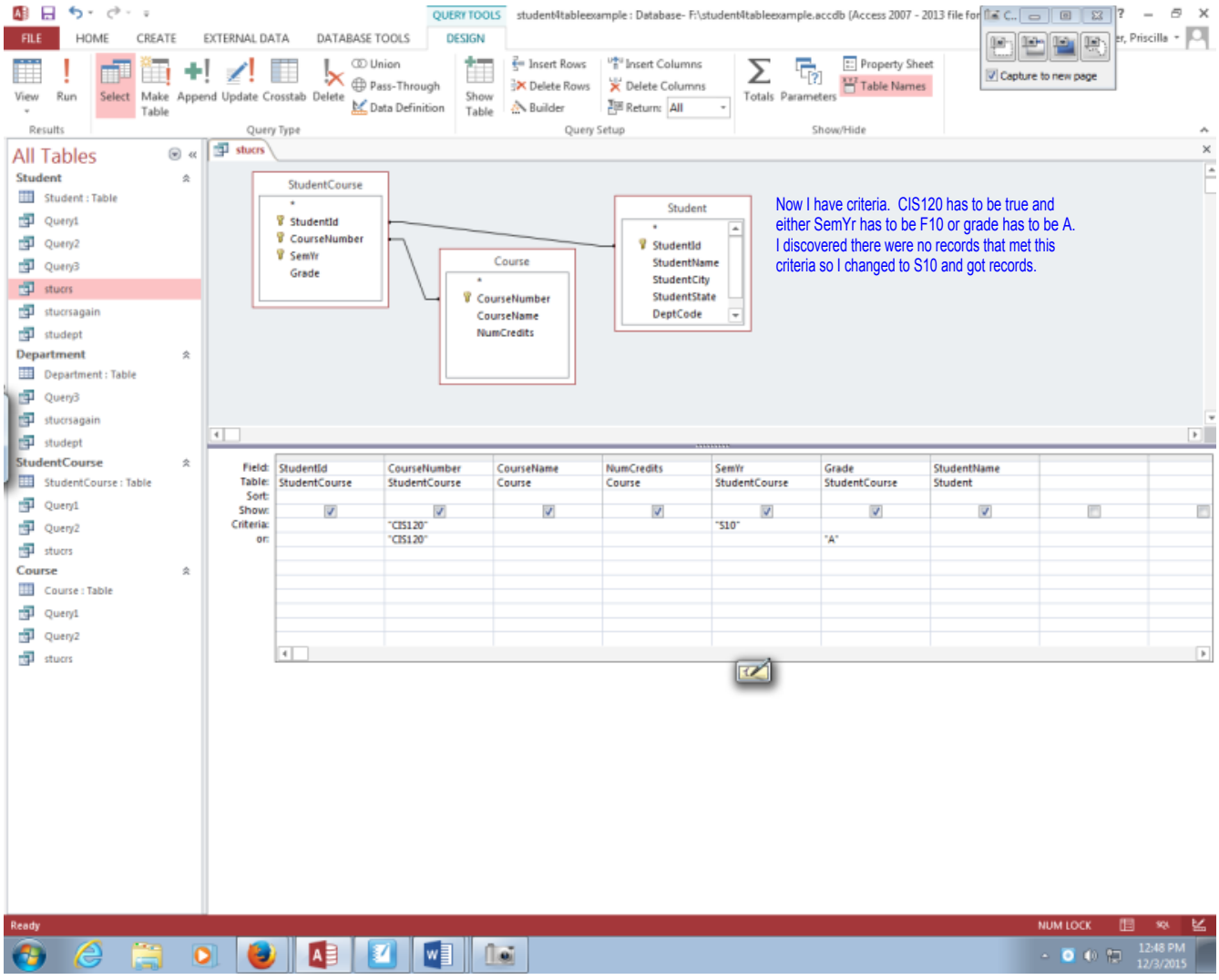

QUERY TOOLS
student4tableexample : Database- F:\student4tableexample.accdb (Access 2007 - 2013 file for
FILE
HOME
CREATE
EXTERNAL DATA
DATABASE TOOLS
DESIGN
Capture to new page
View
Run
Select
Make Table
Append
Update
Crosstab
Delete
Union
Pass-Through
Data Definition
Show Table
Insert Rows
Delete Rows
Builder
Insert Columns
Delete Columns
Return: All
Totals
Parameters
Property Sheet
Table Names
Results
Query Type
Query Setup
Show/Hide
All Tables
Student
Student : Table
Query1
Query2
stucrs
stucrsagain
studept
Department
Department : Table
stucrsagain
studept
StudentCourse
StudentCourse : Table
Query1
Query2
stucrs
Course
Course : Table
Query1
Query2
stucrs
Query3
Student
StudentId
StudentName
StudentCity
StudentState
DeptCode
StudentGPA
Department
DeptCode
DepartmentName
DepartmentChair
Now I have CI under student.deptcode so I will only see CI students.
Field:
Table:
Sort:
Show:
Criteria:
or:
StudentId
Student
StudentName
Student
DeptCode
Student
"CI"
DepartmentName
Department
DeptCode
Department
Ready
NUM LOCK
12:41 PM
12/3/2015

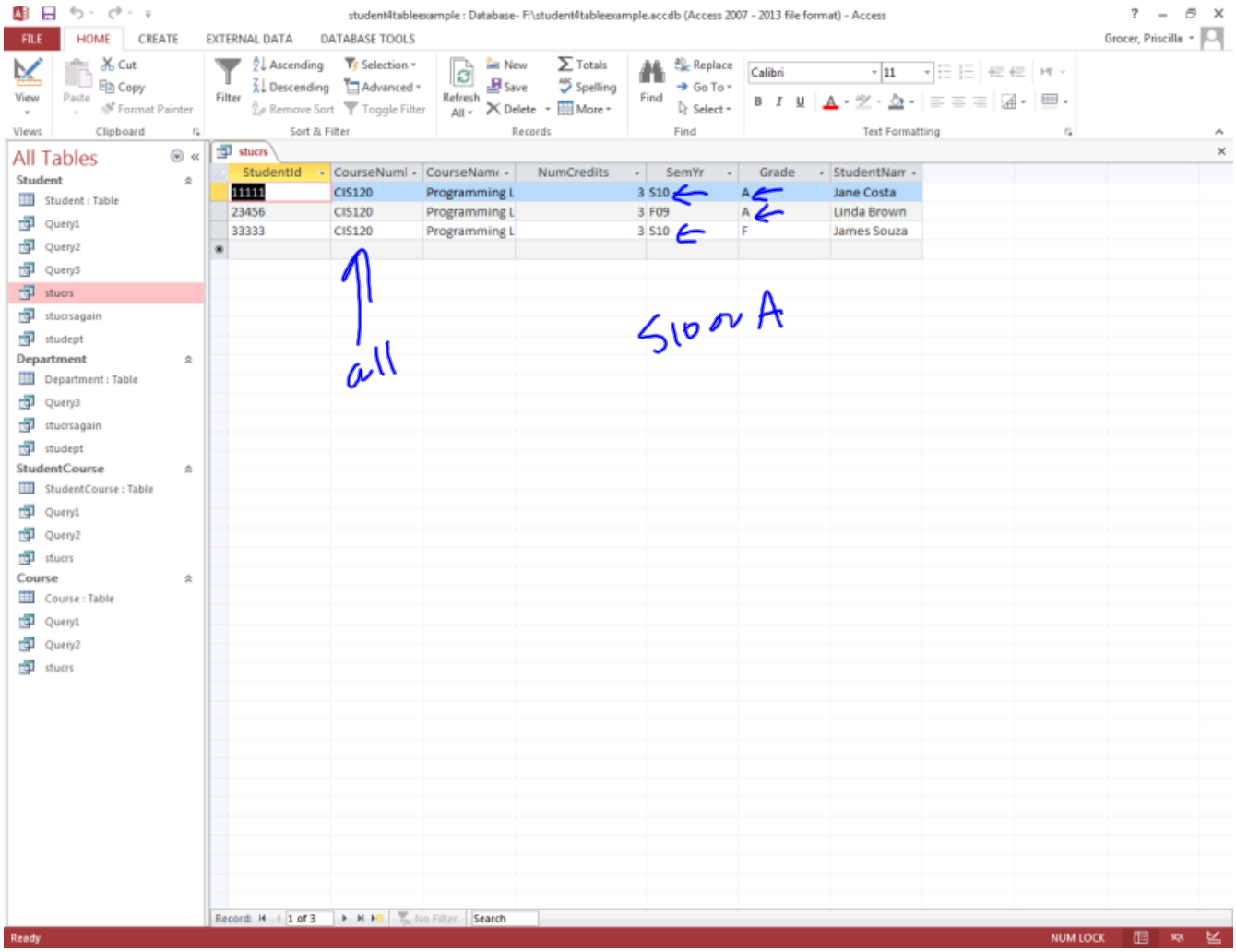

student4tableexample : Database- F:\student4tableexample.accdb (Access 2007 - 2013 file format) - Access
FILE
HOME
CREATE
EXTERNAL DATA
DATABASE TOOLS
All Tables
Student
Student : Table
Query1
Query2
stucrs
stucrsagain
studept
Department
Department : Table
stucrsagain
studept
StudentCourse
StudentCourse : Table
Query1
Query2
stucrs
Course
Course : Table
Query1
Query2
stucrs
Query3
StudentId
StudentNam
Student.DeptCode
Department
Department.DeptCode
11111
Jane Costa
CI
Computer Info
CI
12345
John Doe
CI
Computer Info
CI
234
Linda Brown
CI
Computer Info
CI
Record: 1 of 3
Search
Ready
NUM LOCK
12:42 PM
12/3/2015

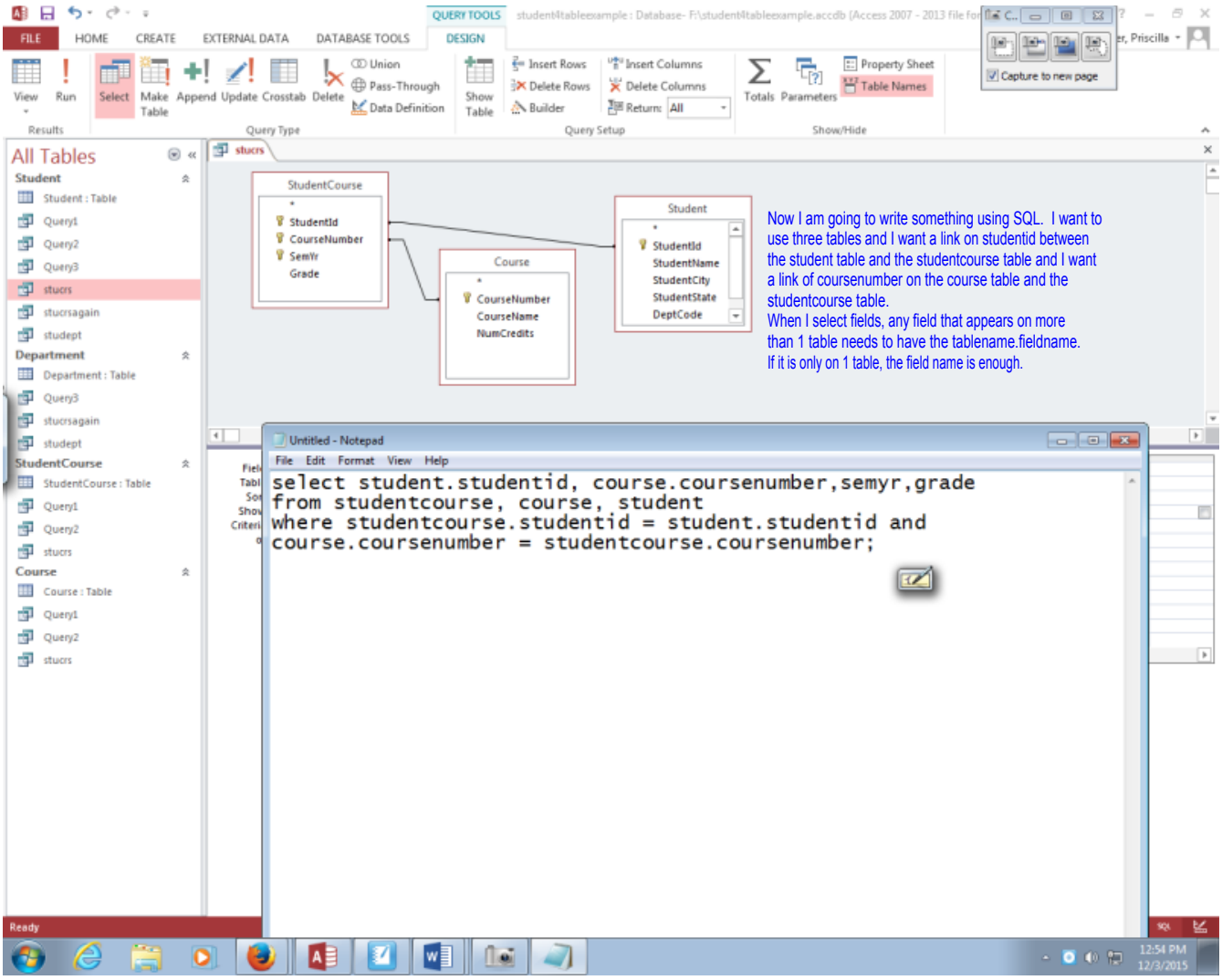

QUERY TOOLS
FILE
HOME
CREATE
EXTERNAL DATA
DATABASE TOOLS
DESIGN
All Tables
Student
Student : Table
Query1
Query2
Query3
stucrs
stucrsagain
studept
Department
Department : Table
Query3
stucrsagain
studept
StudentCourse
StudentCourse : Table
Query1
Query2
stucrs
Course
Course : Table
Query1
Query2
stucrs
StudentCourse
StudentId
CourseNumber
SemYr
Grade
Course
CourseNumber
CourseName
NumCredits
Student
StudentId
StudentName
StudentCity
StudentState
DeptCode
Field:
Table:
Sort:
Show:
Criteria:
or:
Ready
NUM LOCK

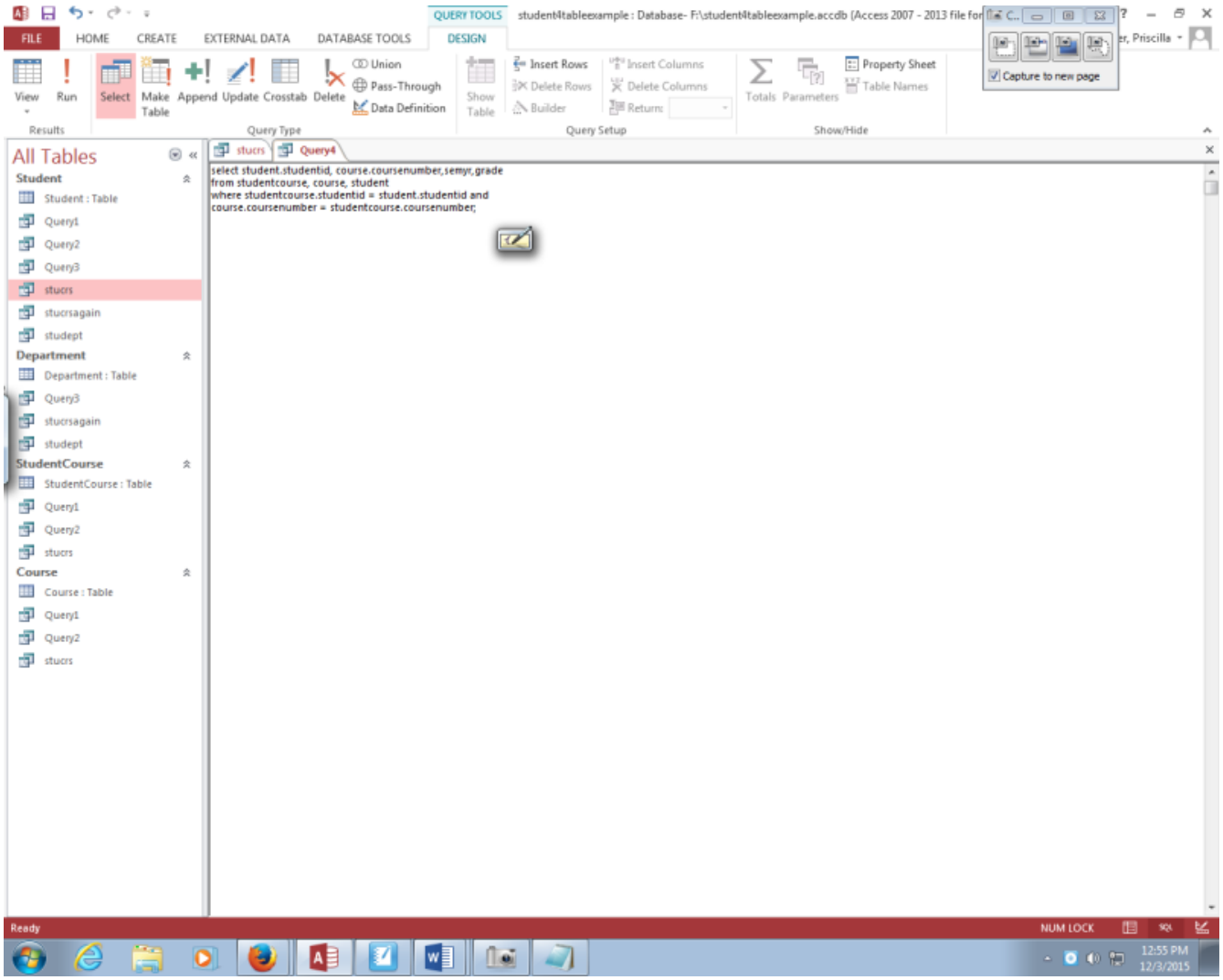

QUERY TOOLS
student4tableexample : Database- F:\student4tableexample.accdb (Access 2007 - 2013 file format) - Access
FILE
HOME
CREATE
EXTERNAL DATA
DATABASE TOOLS
DESIGN
Grocer, Priscilla
View
Run
Select
Make Table
Append
Update
Crosstab
Delete
Union
Pass-Through
Data Definition
Show Table
Insert Rows
Delete Rows
Builder
Insert Columns
Delete Columns
Return: All
Totals
Parameters
Property Sheet
Table Names
Results
Query Type
Query Setup
Show/Hide
All Tables
Student
Student : Table
stucrs
stucrsagain
studept
Department
Department : Table
stucrsagain
studept
StudentCourse
StudentCourse : Table
stucrs
Course
Course : Table
stucrs
stucrs
StudentCourse
StudentId
CourseNumber
SemYr
Grade
Course
CourseNumber
CourseName
NumCredits
Student
StudentId
StudentName
StudentCity
StudentState
DeptCode
M
M
bridge
Student
Student
Course
PK
PK
StudentID
StudentId
CourseNumber
SemYr
P
Field:
Table:
Sort:
Show:
Criteria:
or:
StudentId
StudentCourse
CourseNumber
StudentCourse
CourseName
Course
NumCredits
Course
SemYr
StudentCourse
Grade
StudentCourse
StudentName
Student
Many to many relationship means 1 student has many courses and 1 course has many students so I cannot carry students on the course table or I would have repeating groups and I cannot carry courses on the student table or I would have repeating groups. This is a many to many relationship. I develop a bridge table that carries information about each course a courses student take.
Ready
NUM LOCK

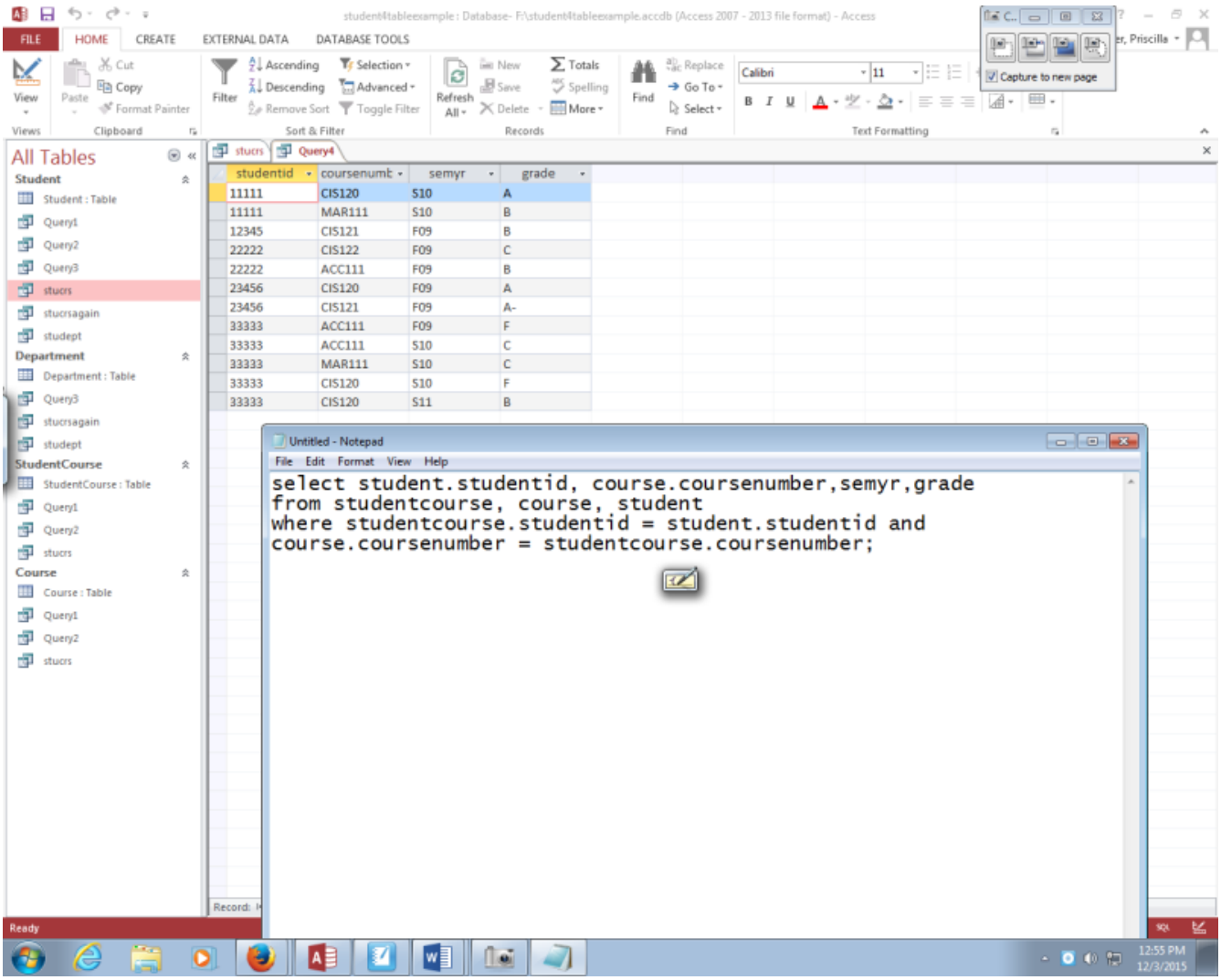

QUERY TOOLS
student4tableexample : Database- F:\student4tableexample.accdb (Access 2007 - 2013 file format) - Access
FILE
HOME
CREATE
EXTERNAL DATA
DATABASE TOOLS
DESIGN
Grocer, Priscilla
View
Run
Select
Make Table
Append
Update
Crosstab
Delete
Union
Pass-Through
Data Definition
Show Table
Insert Rows
Delete Rows
Builder
Insert Columns
Delete Columns
Return: All
Totals
Parameters
Property Sheet
Table Names
Results
Query Type
Query Setup
Show/Hide
All Tables
Student
Student : Table
Query1
Query2
Query3
stucrs
stucrsagain
studept
Department
Department : Table
Query3
stucrsagain
studept
StudentCourse
StudentCourse : Table
Query1
Query2
stucrs
Course
Course : Table
Query1
Query2
stucrs
stucrs
StudentCourse
StudentId
CourseNumber
SemYr
Grade
Course
CourseNumber
CourseName
NumCredits
Student
StudentId
StudentName
StudentCity
StudentState
DeptCode
Field:
Table:
Sort:
Show:
Criteria:
or:
StudentId
StudentCourse
CourseNumber
StudentCourse
"CIS120"
CIS120
CourseName
Course
NumCredits
Course
SemYr
StudentCourse
S10
Grade
StudentCourse
A
StudentName
Student
N
CIS120
Y
N
SemYr
S10
Y
N
A
Y
disp
disp
Ready
NUM LOCK

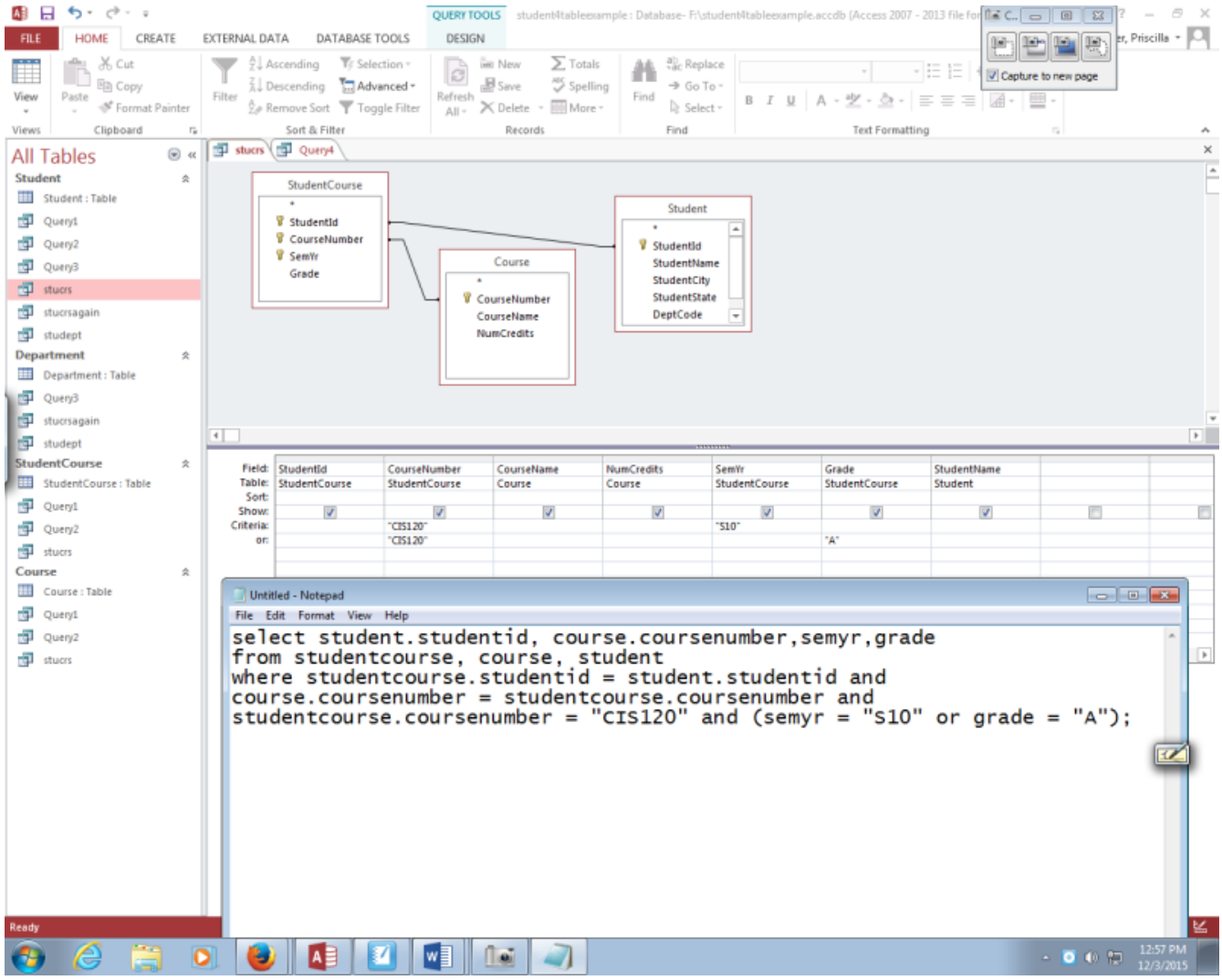

QUERY TOOLS
student4tableexample : Database- F:\student4tableexample.accdb (Access 2007 - 2013 file for
FILE
HOME
CREATE
EXTERNAL DATA
DATABASE TOOLS
DESIGN
View
Run
Select
Make Table
Append
Update
Crosstab
Delete
Union
Pass-Through
Data Definition
Show Table
Insert Rows
Delete Rows
Builder
Insert Columns
Delete Columns
Return: All
Totals
Parameters
Property Sheet
Table Names
Capture to new page
Results
Query Type
Query Setup
Show/Hide
All Tables
Student
Student : Table
Query1
Query2
Query3
stucrs
stucrsagain
studept
Department
Department : Table
Query3
stucrsagain
studept
StudentCourse
StudentCourse : Table
Query1
Query2
stucrs
Course
Course : Table
Query1
Query2
stucrs
stucrs
StudentCourse
StudentId
CourseNumber
SemYr
Grade
Course
CourseNumber
CourseName
NumCredits
Student
StudentId
StudentName
StudentCity
StudentState
DeptCode
Now I have criteria. CIS120 has to be true and either SemYr has to be F10 or grade has to be A. I discovered there were no records that met this criteria so I changed to S10 and got records.
Field:
Table:
Sort:
Show:
Criteria:
or:
StudentId
StudentCourse
CourseNumber
StudentCourse
"CIS120"
"CIS120"
CourseName
Course
NumCredits
Course
SemYr
StudentCourse
"S10"
Grade
StudentCourse
"A"
StudentName
Student
Ready
NUM LOCK
12:48 PM
12/3/2015

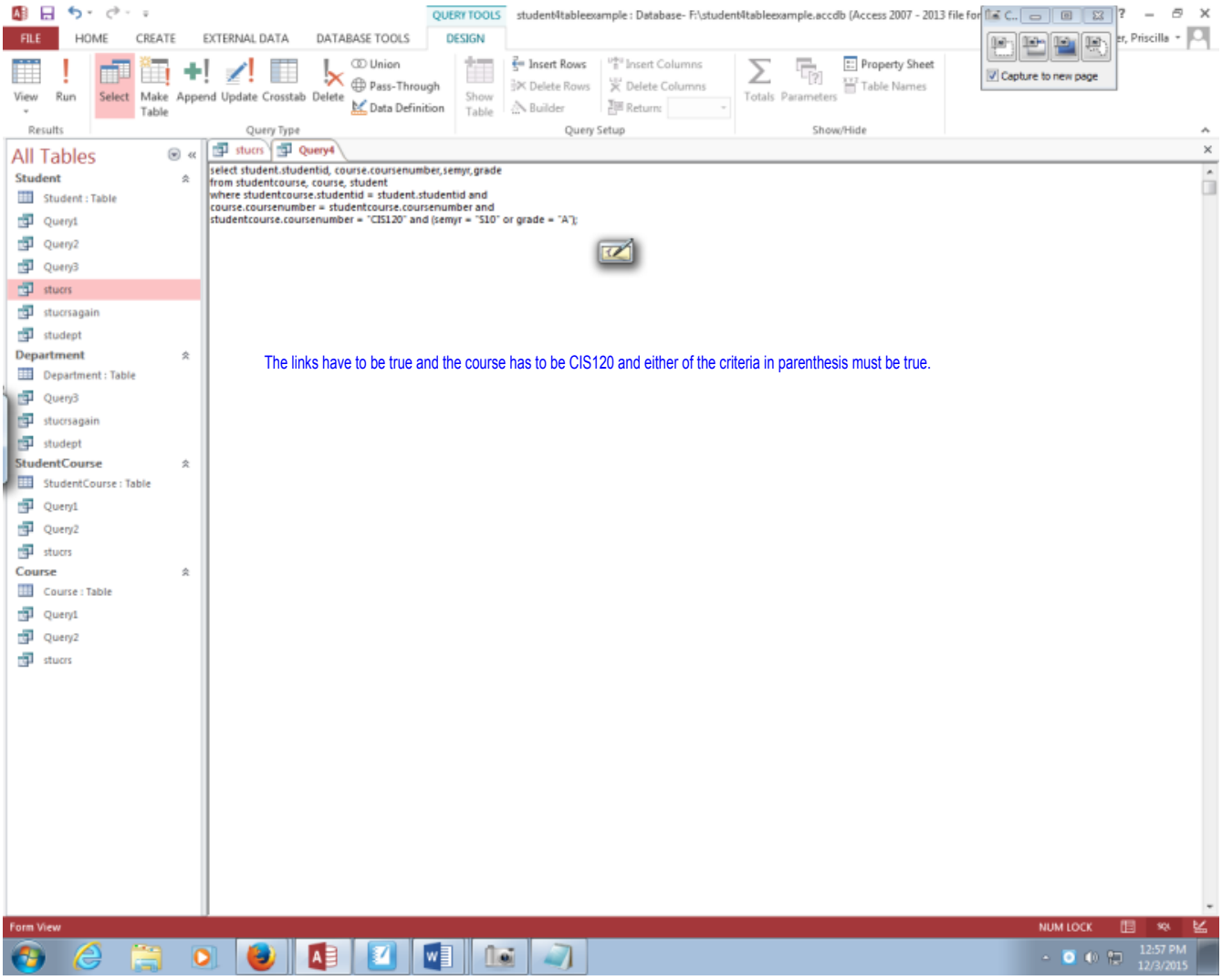

student4tableexample : Database- F:\student4tableexample.accdb (Access 2007 - 2013 file format) - Access
FILE
HOME
CREATE
EXTERNAL DATA
DATABASE TOOLS
Grocer, Priscilla
All Tables
Student
Student : Table
Query1
Query2
Query3
stucrs
stucrsagain
studept
Department
Department : Table
Query3
stucrsagain
studept
StudentCourse
StudentCourse : Table
Query1
Query2
stucrs
Course
Course : Table
Query1
Query2
stucrs
stucrs
StudentId
CourseNuml
CourseName
NumCredits
SemYr
Grade
StudentNam
11111 CIS120 Programming L 3 S10 A Jane Costa
23456 CIS120 Programming L 3 F09 A Linda Brown
33333 CIS120 Programming L 3 S10 F James Souza
all
S10 or A
Record: 1 of 3
No Filter
Search
Ready
NUM LOCK


FILE
HOME
CREATE
EXTERNAL DATA
DATABASE TOOLS
QUERY TOOLS
DESIGN
All Tables
Student
Student : Table
Query1
Query2
Query3
stucrs
stucrsagain
studept
Department
Department : Table
Query3
stucrsagain
studept
StudentCourse
StudentCourse : Table
Query1
Query2
stucrs
Course
Course : Table
Query1
Query2
stucrs
StudentCourse
StudentId
CourseNumber
SemYr
Grade
Course
CourseNumber
CourseName
NumCredits
Student
StudentId
StudentName
StudentCity
StudentState
DeptCode
Now I am going to write something using SQL. I want to use three tables and I want a link on studentid between the student table and the studentcourse table and I want a link of coursenumber on the course table and the studentcourse table.
When I select fields, any field that appears on more than 1 table needs to have the tablename.fieldname.
If it is only on 1 table, the field name is enough.
Untitled - Notepad
File Edit Format View Help
select student.studentid, course.coursenumber,semyr,grade
from studentcourse, course, student
where studentcourse.studentid = student.studentid and
course.coursenumber = studentcourse.coursenumber;
Ready

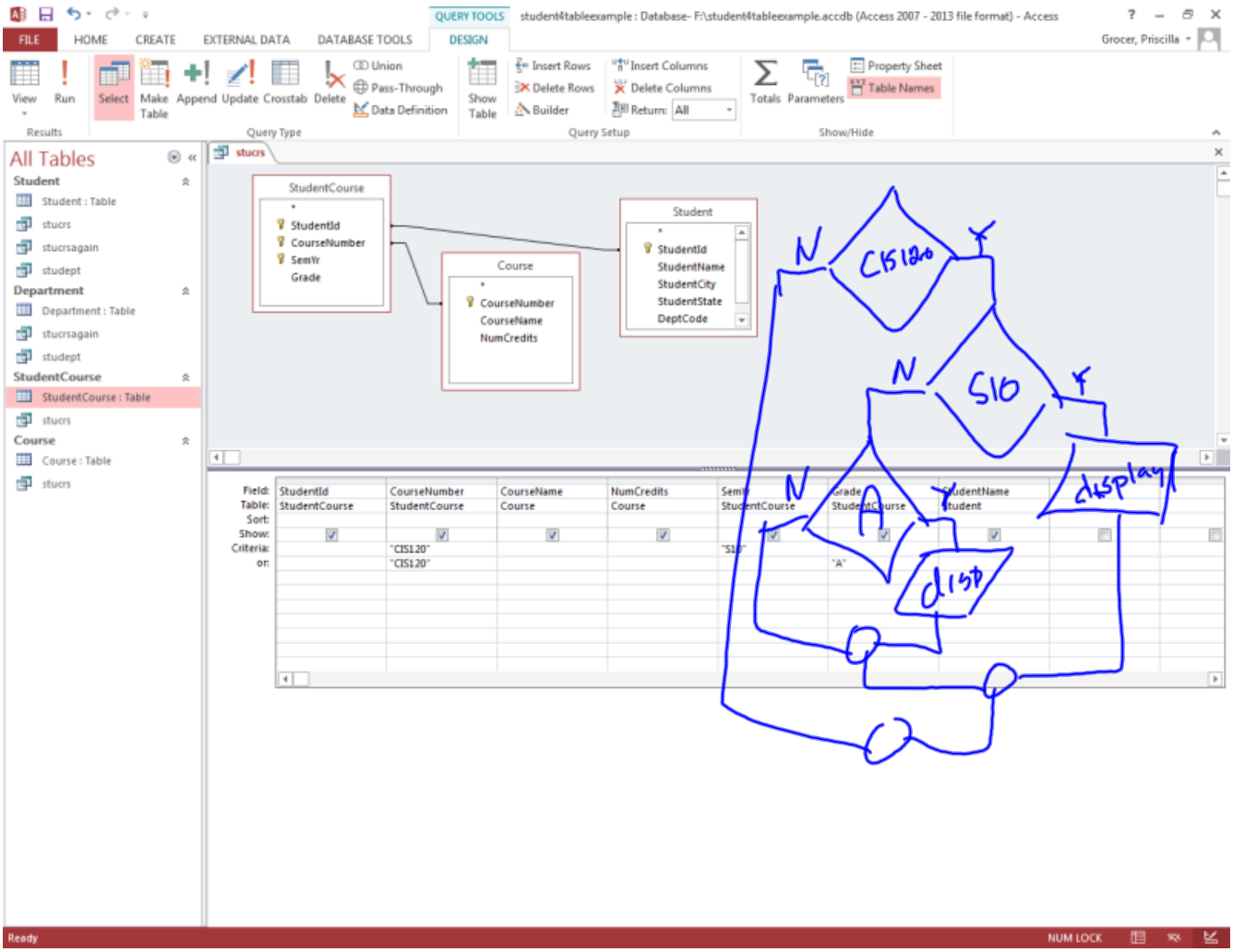

QUERY TOOLS
student4tableexample : Database- F:\student4tableexample.accdb (Access 2007 - 2013 file for
FILE
HOME
CREATE
EXTERNAL DATA
DATABASE TOOLS
DESIGN
View
Run
Select
Make Table
Append
Update
Crosstab
Delete
Union
Pass-Through
Data Definition
Show Table
Insert Rows
Delete Rows
Builder
Insert Columns
Delete Columns
Return:
Totals
Parameters
Property Sheet
Table Names
Capture to new page
Results
Query Type
Query Setup
Show/Hide
All Tables
Student
Student : Table
Query1
Query2
Query3
stucrs
stucrsagain
studept
Department
Department : Table
Query3
stucrsagain
studept
StudentCourse
StudentCourse : Table
Query1
Query2
stucrs
Course
Course : Table
Query1
Query2
stucrs
stucrs
Query4
select student.studentid, course.coursenumber,semyr,grade
from studentcourse, course, student
where studentcourse.studentid = student.studentid and
course.coursenumber = studentcourse.coursenumber;
Ready
NUM LOCK
12:55 PM
12/3/2015

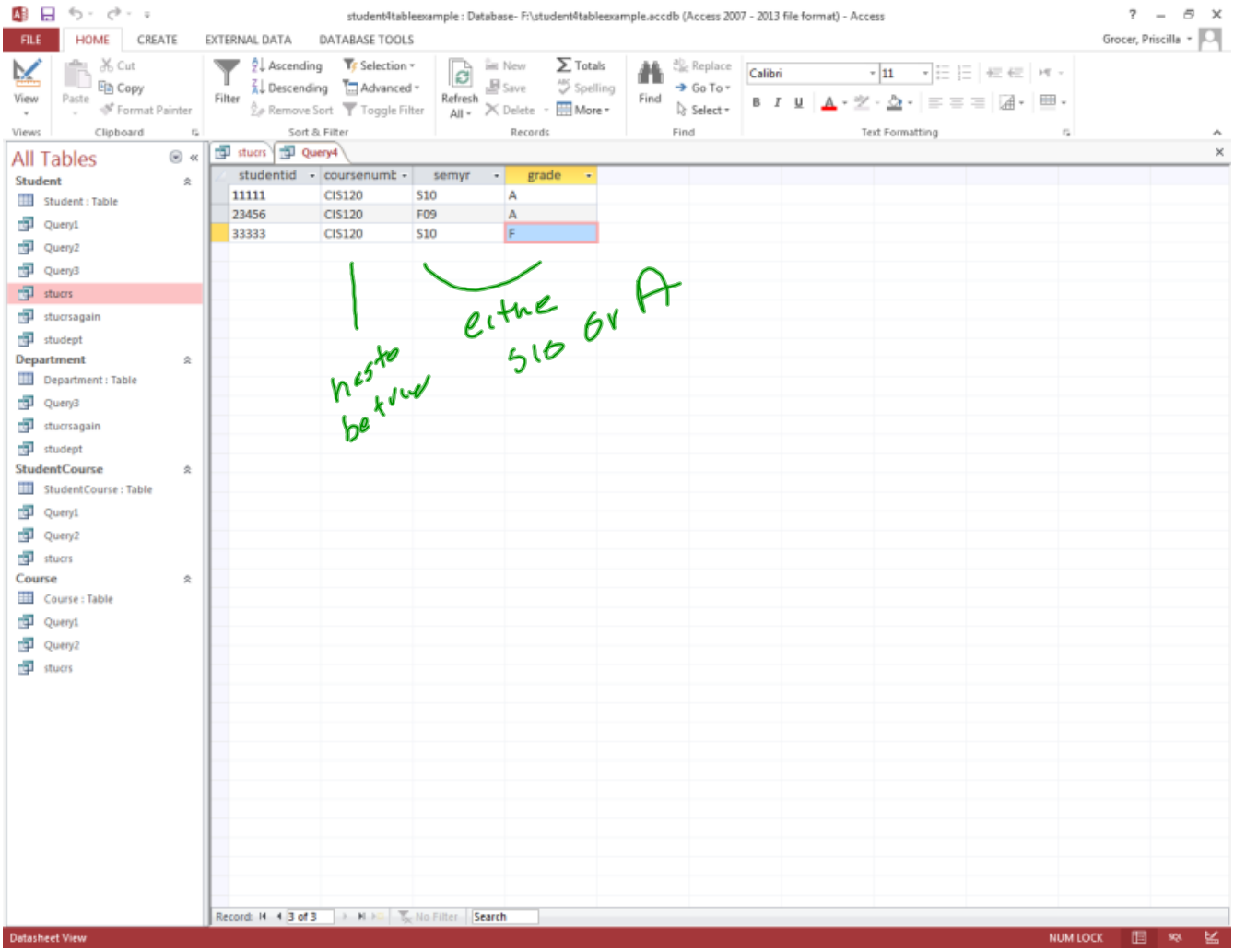

FILE
HOME
CREATE
EXTERNAL DATA
DATABASE TOOLS
All Tables
Student
Student : Table
Query1
Query2
Query3
stucrs
stucrsagain
studept
Department
Department : Table
Query3
stucrsagain
studept
StudentCourse
StudentCourse : Table
Query1
Query2
stucrs
Course
Course : Table
Query1
Query2
stucrs
stucrs
Query4
studentid coursenumb semyr grade
11111 CIS120 S10 A
11111 MAR111 S10 B
12345 CIS121 F09 B
22222 CIS122 F09 C
22222 ACC111 F09 B
23456 CIS120 F09 A
23456 CIS121 F09 A-
33333 ACC111 F09 F
33333 ACC111 S10 C
33333 MAR111 S10 C
33333 CIS120 S10 F
33333 CIS120 S11 B
Untitled - Notepad
File Edit Format View Help
select student.studentid, course.coursenumber,semyr,grade
from studentcourse, course, student
where studentcourse.studentid = student.studentid and
course.coursenumber = studentcourse.coursenumber;
Ready
12:55 PM
12/3/2015

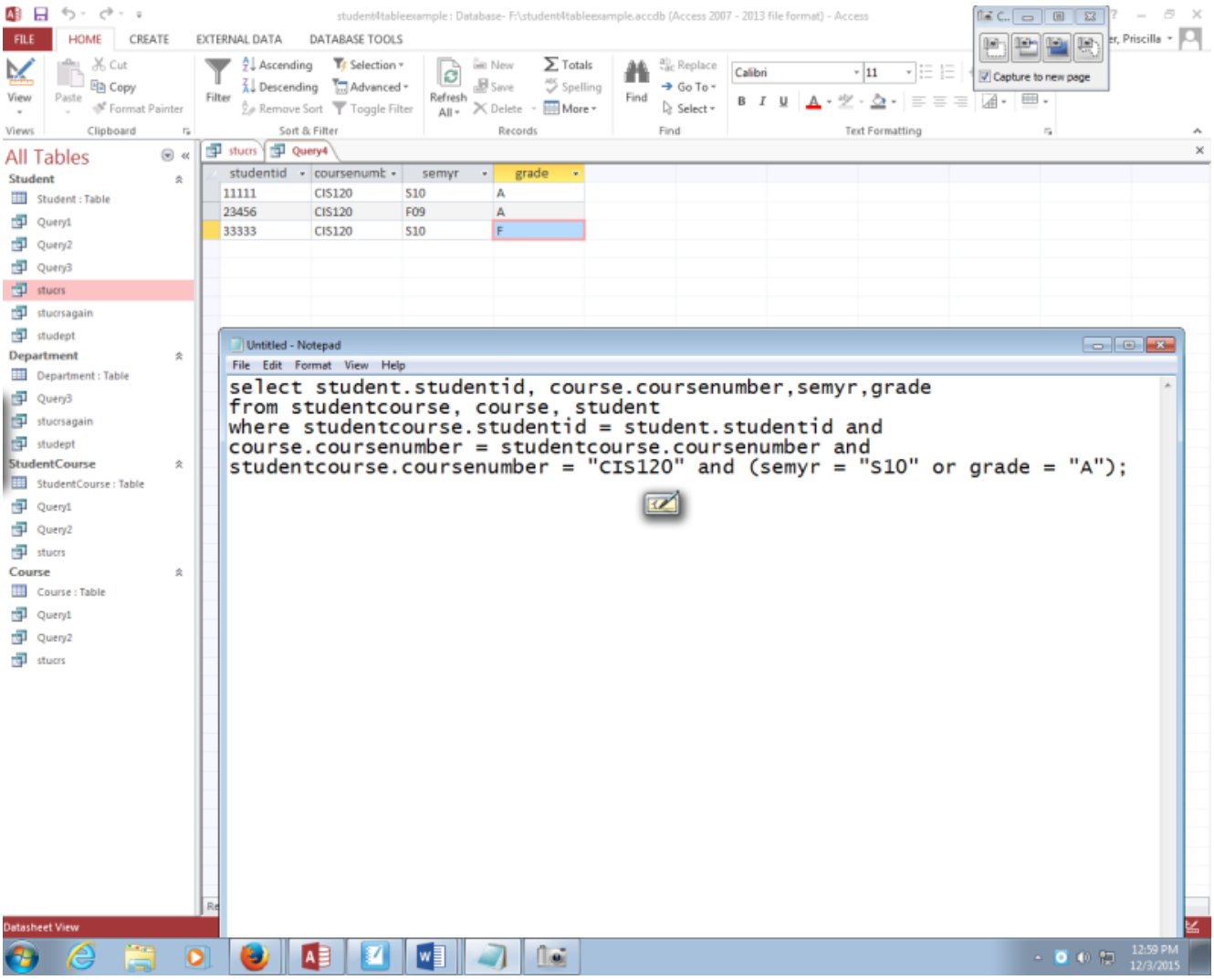

FILE
HOME
CREATE
EXTERNAL DATA
DATABASE TOOLS
QUERY TOOLS
DESIGN
All Tables
Student
Student : Table
Query1
Query2
Query3
stucrs
stucrsagain
studept
Department
Department : Table
Query3
stucrsagain
studept
StudentCourse
StudentCourse : Table
Query1
Query2
stucrs
Course
Course : Table
Query1
Query2
stucrs
stucrs
Query4
StudentCourse
StudentId
CourseNumber
SemYr
Grade
Course
CourseNumber
CourseName
NumCredits
Student
StudentId
StudentName
StudentCity
StudentState
DeptCode
Field: StudentId CourseNumber CourseName NumCredits SemYr Grade StudentName
Table: StudentCourse StudentCourse Course Course StudentCourse StudentCourse Student
Sort:
Show:
Criteria: "CIS120" "S10"
or: "CIS120" "A"
Untitled - Notepad
File Edit Format View Help
select student.studentid, course.coursenumber,semyr,grade
from studentcourse, course, student
where studentcourse.studentid = student.studentid and
course.coursenumber = studentcourse.coursenumber and
studentcourse.coursenumber = "CIS120" and (semyr = "S10" or grade = "A");
Ready
12:57 PM
12/3/2015

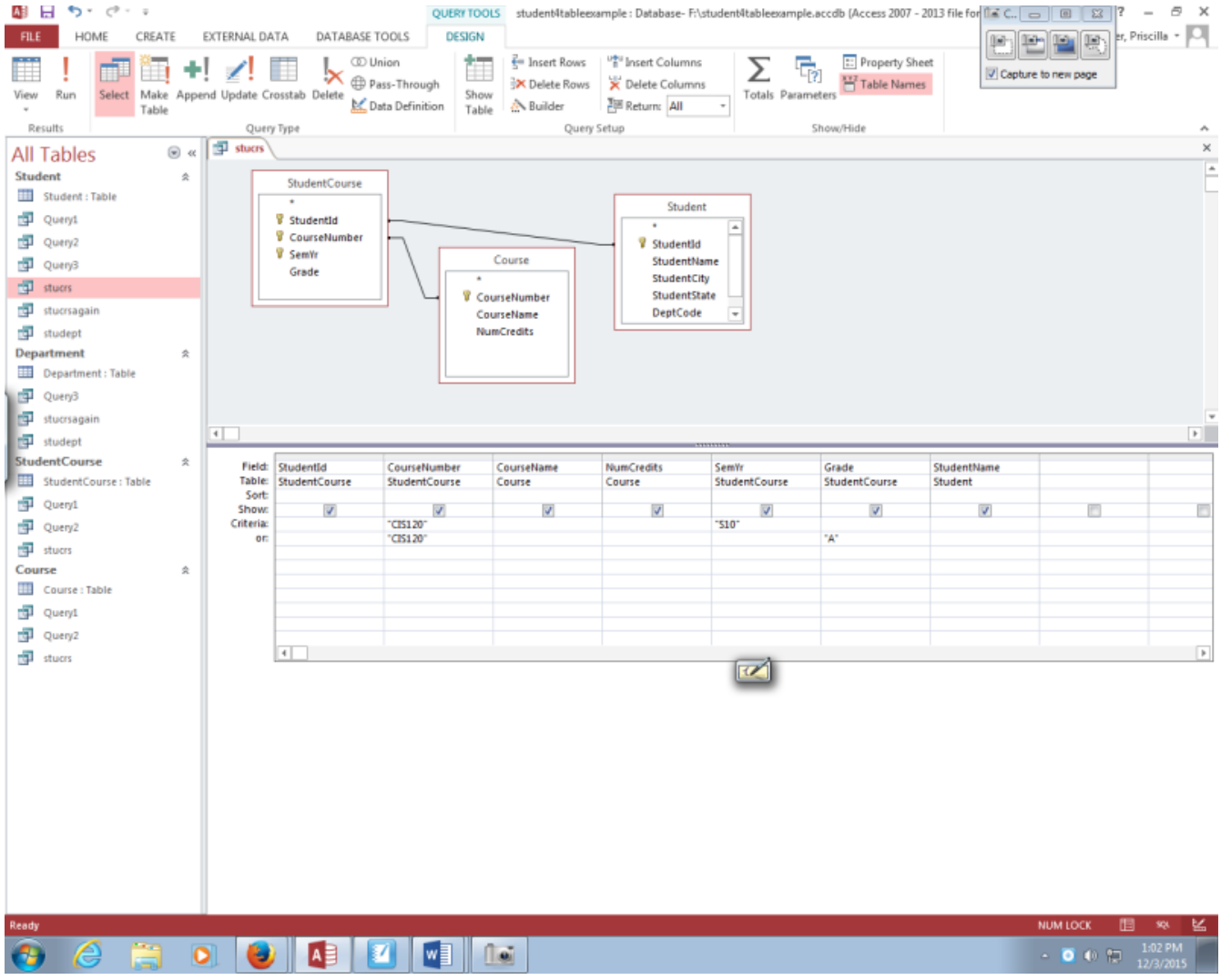


The links have to be true and the course has to be CIS120 and either of the criteria in parenthesis must be true.


QUERY TOOLS
student4tableexample : Database- F:\student4tableexample.accdb (Access 2007 - 2013 file format) - Access
FILE
HOME
CREATE
EXTERNAL DATA
DATABASE TOOLS
DESIGN
Grocer, Priscilla
View
Run
Select
Make Table
Append
Update
Crosstab
Delete
Union
Pass-Through
Data Definition
Show Table
Insert Rows
Delete Rows
Builder
Insert Columns
Delete Columns
Return: All
Totals
Parameters
Property Sheet
Table Names
Results
Query Type
Query Setup
Show/Hide
All Tables
Student
Student : Table
stucrs
stucrsagain
studept
Department
Department : Table
stucrsagain
studept
StudentCourse
StudentCourse : Table
stucrs
Course
Course : Table
stucrs
stucrs
StudentCourse
StudentId
CourseNumber
SemYr
Grade
Course
CourseNumber
CourseName
NumCredits
Student
StudentId
StudentName
StudentCity
StudentState
DeptCode
Field:
Table:
Sort:
Show:
Criteria:
or:
StudentId
StudentCourse
CourseNumber
StudentCourse
"CIS120"
"CIS120"
CourseName
Course
NumCredits
Course
SemYr
StudentCourse
"S10"
Grade
StudentCourse
"A"
StudentName
Student
N
CIS120
Y
N
S10
Y
N
A
Y
display
disp
Ready
NUM LOCK


student4tableexample : Database- F:\student4tableexample.accdb (Access 2007 - 2013 file format) - Access
FILE
HOME
CREATE
EXTERNAL DATA
DATABASE TOOLS
Grocer, Priscilla
All Tables
Student
Student : Table
Query1
Query2
Query3
stucrs
stucrsagain
studept
Department
Department : Table
Query3
stucrsagain
studept
StudentCourse
StudentCourse : Table
Query1
Query2
stucrs
Course
Course : Table
Query1
Query2
stucrs
stucrs
Query4
studentid
coursenumb
semyr
grade
11111
CIS120
S10
A
23456
CIS120
F09
A
33333
CIS120
S10
F
either S10 or A
has to be true
Record: 3 of 3
No Filter
Search
Datasheet View
NUM LOCK


FILE
HOME
CREATE
EXTERNAL DATA
DATABASE TOOLS
All Tables
Student
Student : Table
Query1
Query2
Query3
stucrs
stucrsagain
studept
Department
Department : Table
Query3
stucrsagain
studept
StudentCourse
StudentCourse : Table
Query1
Query2
stucrs
Course
Course : Table
Query1
Query2
stucrs
stucrs
Query4
studentid coursenumb semyr grade
11111 CIS120 S10 A
23456 CIS120 F09 A
33333 CIS120 S10 F
Untitled - Notepad
File Edit Format View Help
select student.studentid, course.coursenumber,semyr,grade
from studentcourse, course, student
where studentcourse.studentid = student.studentid and
course.coursenumber = studentcourse.coursenumber and
studentcourse.coursenumber = "CIS120" and (semyr = "S10" or grade = "A");
Datasheet View


QUERY TOOLS
student4tableexample : Database- F:\student4tableexample.accdb (Access 2007 - 2013 file for
FILE
HOME
CREATE
EXTERNAL DATA
DATABASE TOOLS
DESIGN
View
Run
Select
Make Table
Append
Update
Crosstab
Delete
Union
Pass-Through
Data Definition
Show Table
Insert Rows
Delete Rows
Builder
Insert Columns
Delete Columns
Return: All
Totals
Parameters
Property Sheet
Table Names
Capture to new page
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Query Setup
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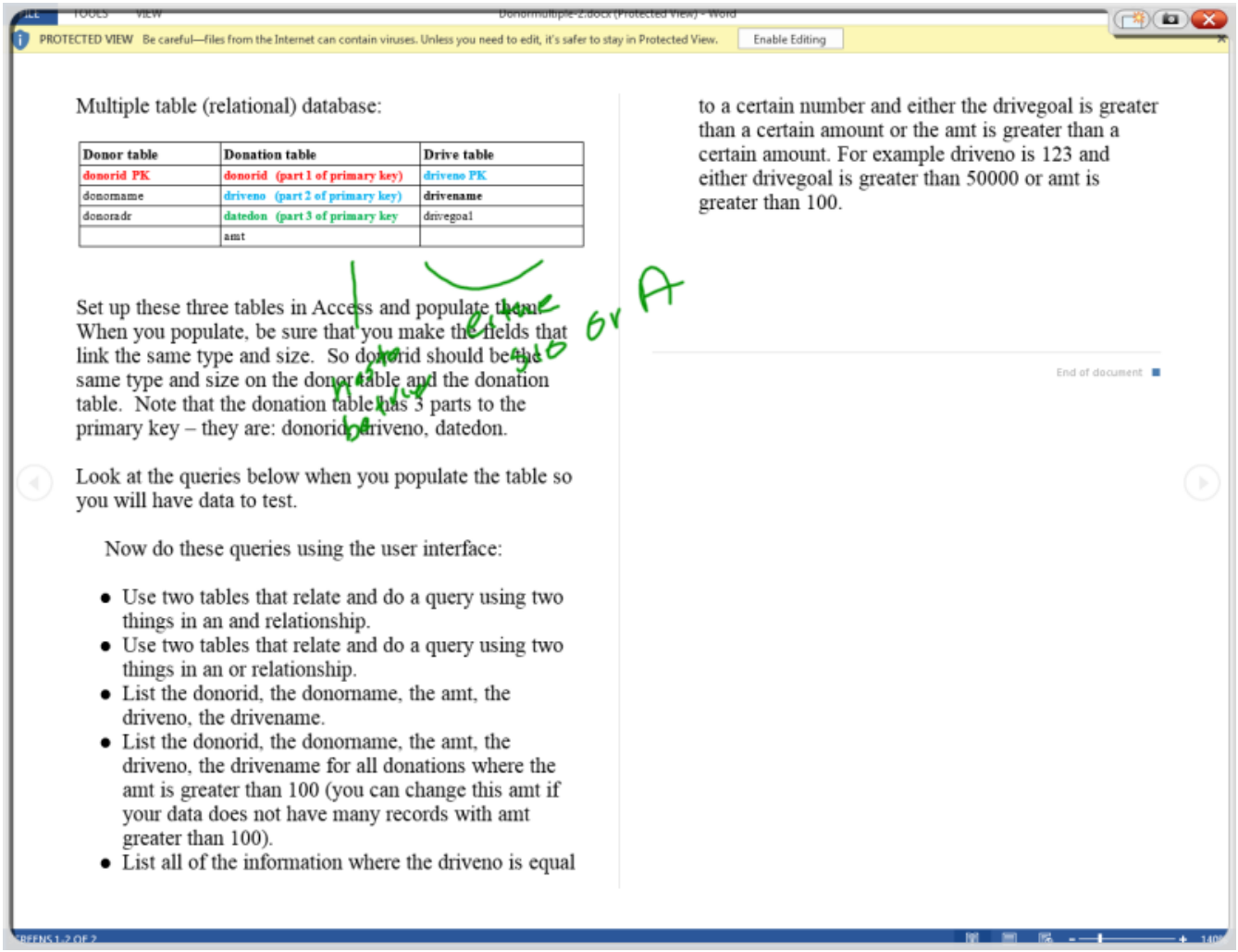
Student : Table
Query1
Query2
Query3
stucrs
stucrsagain
studept
Department
Department : Table
Query3
stucrsagain
studept
StudentCourse
StudentCourse : Table
Query1
Query2
stucrs
Course
Course : Table
Query1
Query2
stucrs
stucrs
StudentCourse
StudentId
CourseNumber
SemYr
Grade
Course
CourseNumber
CourseName
NumCredits
Student
StudentId
StudentName
StudentCity
StudentState
DeptCode
Field:
Table:
Sort:
Show:
Criteria:
or:
StudentId
StudentCourse
CourseNumber
StudentCourse
"CIS120"
"CIS120"
CourseName
Course
NumCredits
Course
SemYr
StudentCourse
"S10"
Grade
StudentCourse
"A"
StudentName
Student
Ready
NUM LOCK
1:02 PM
12/3/2015



PROTECTED VIEW Be careful—files from the Internet can contain viruses. Unless you need to edit, it's safer to stay in Protected View. Enable Editing

Multiple table (relational) database:

Donor table	Donation table	Drive table
donorid PK	donorid (part 1 of primary key)	driveno PK
donorname	driveno (part 2 of primary key)	drivename
donoradr	datedon (part 3 of primary key	drivegoal
	amt	

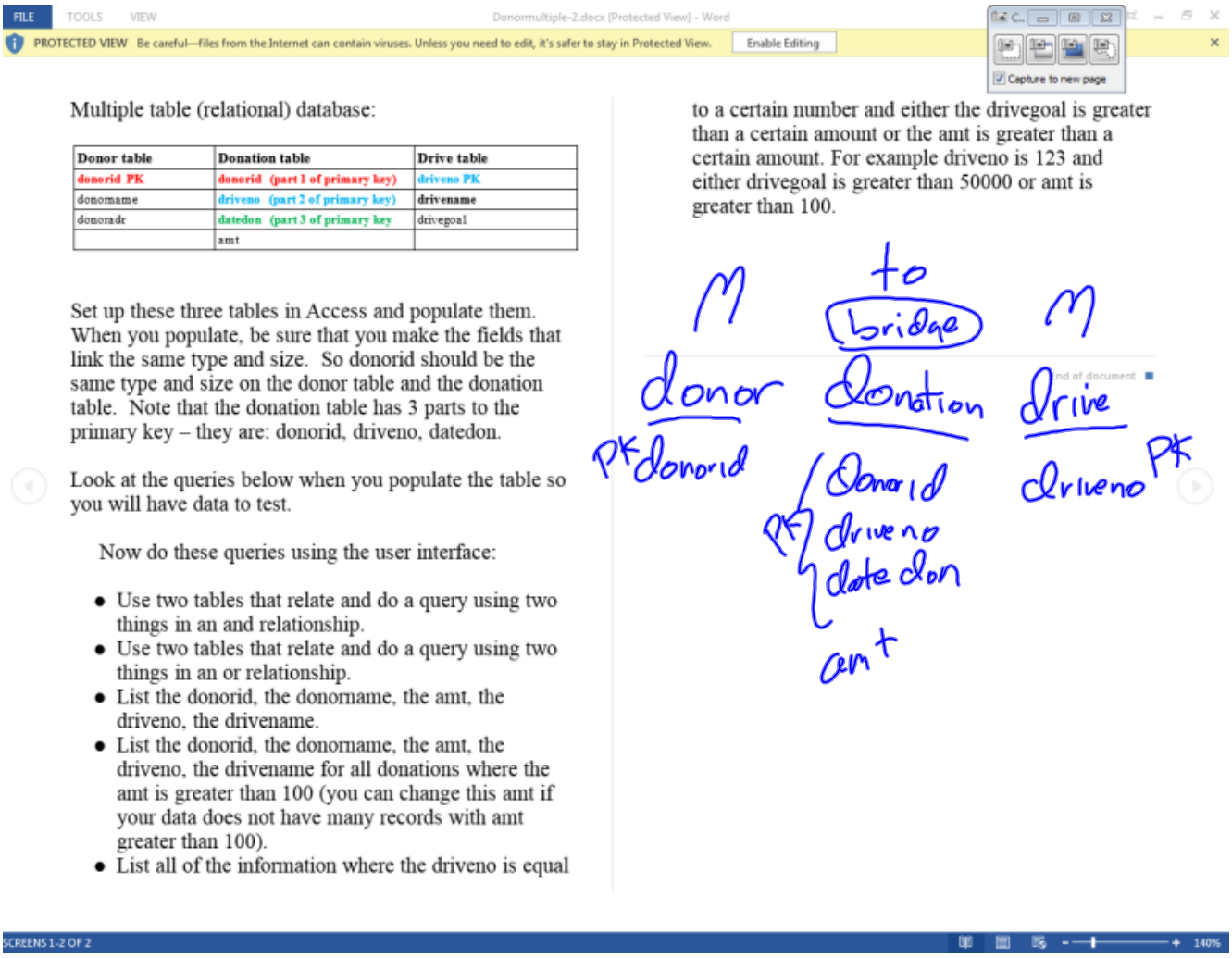
Set up these three tables in Access and populate them. When you populate, be sure that you make the fields that link the same type and size. So donorid should be the same type and size on the donor table and the donation table. Note that the donation table has 3 parts to the primary key – they are: donorid, driveno, datedon.

Look at the queries below when you populate the table so you will have data to test.

Now do these queries using the user interface:

- Use two tables that relate and do a query using two things in an and relationship.
- Use two tables that relate and do a query using two things in an or relationship.
- List the donorid, the donorname, the amt, the driveno, the drivename.
- List the donorid, the donorname, the amt, the driveno, the drivename for all donations where the amt is greater than 100 (you can change this amt if your data does not have many records with amt greater than 100).
- List all of the information where the driveno is equal to a certain number and either the drivegoal is greater than a certain amount or the amt is greater than a certain amount. For example driveno is 123 and either drivegoal is greater than 50000 or amt is greater than 100.

End of document



FILE TOOLS VIEW Donormultiple-2.docx [Protected View] - Word

PROTECTED VIEW Be careful—files from the Internet can contain viruses. Unless you need to edit, it's safer to stay in Protected View. Enable Editing

Capture to new page

Multiple table (relational) database:

Donor table	Donation table	Drive table
donorid PK	donorid (part 1 of primary key)	driveno PK
donorname	driveno (part 2 of primary key)	drivename
donoradr	datedon (part 3 of primary key	drivegoal
	amt	

Set up these three tables in Access and populate them. When you populate, be sure that you make the fields that link the same type and size. So donorid should be the same type and size on the donor table and the donation table. Note that the donation table has 3 parts to the primary key – they are: donorid, driveno, datedon.

Look at the queries below when you populate the table so you will have data to test.

Now do these queries using the user interface:

- Use two tables that relate and do a query using two things in an and relationship.
- Use two tables that relate and do a query using two things in an or relationship.
- List the donorid, the donorname, the amt, the driveno, the drivename.
- List the donorid, the donorname, the amt, the driveno, the drivename for all donations where the amt is greater than 100 (you can change this amt if your data does not have many records with amt greater than 100).
- List all of the information where the driveno is equal to a certain number and either the drivegoal is greater than a certain amount or the amt is greater than a certain amount. For example driveno is 123 and either drivegoal is greater than 50000 or amt is greater than 100.

End of document

M to bridge M

donor donation drive

PK donorid

donorid PK
driveno
datedon
amt

driveno PK

SCREENS 1-2 OF 2 140%