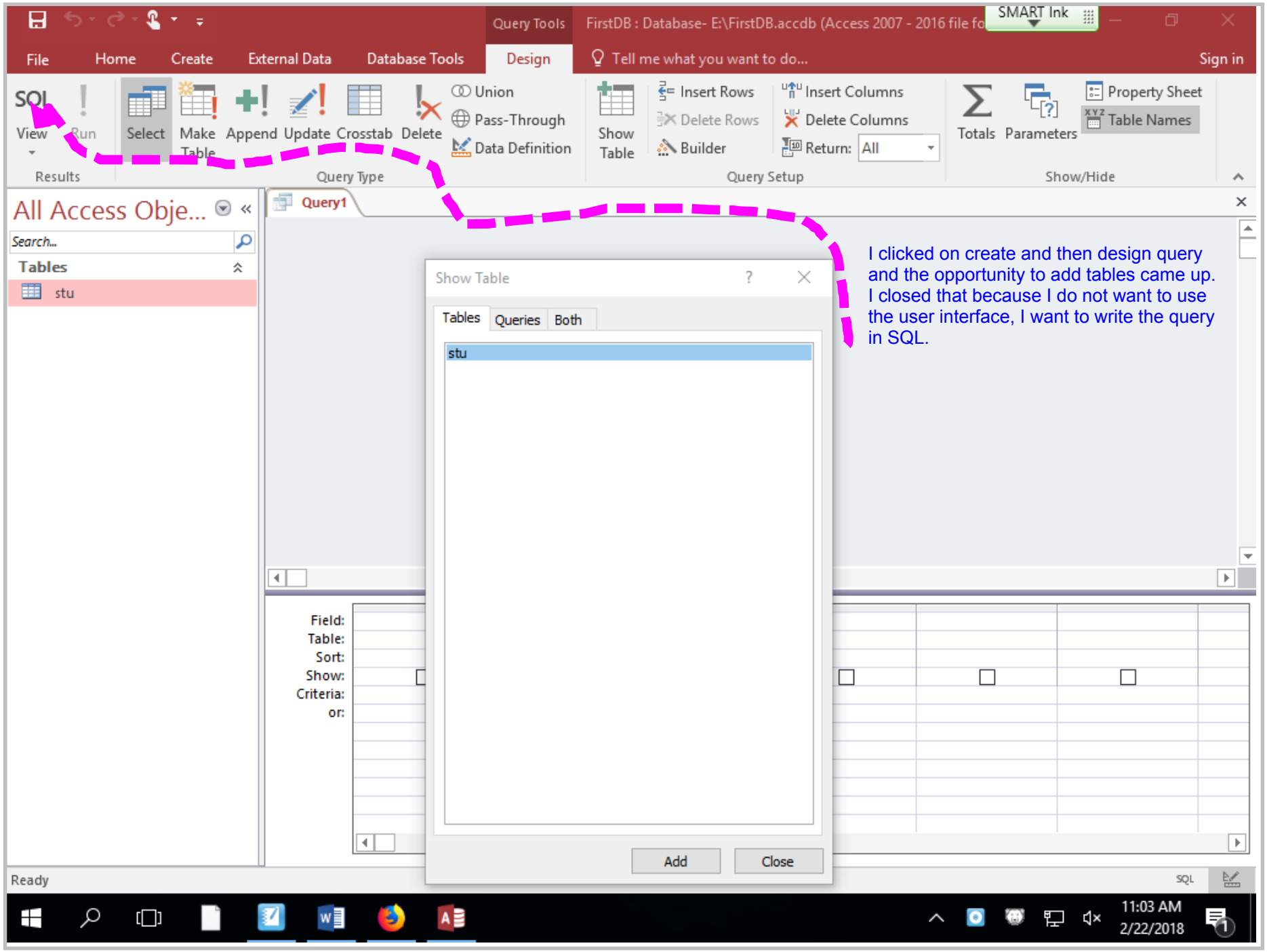
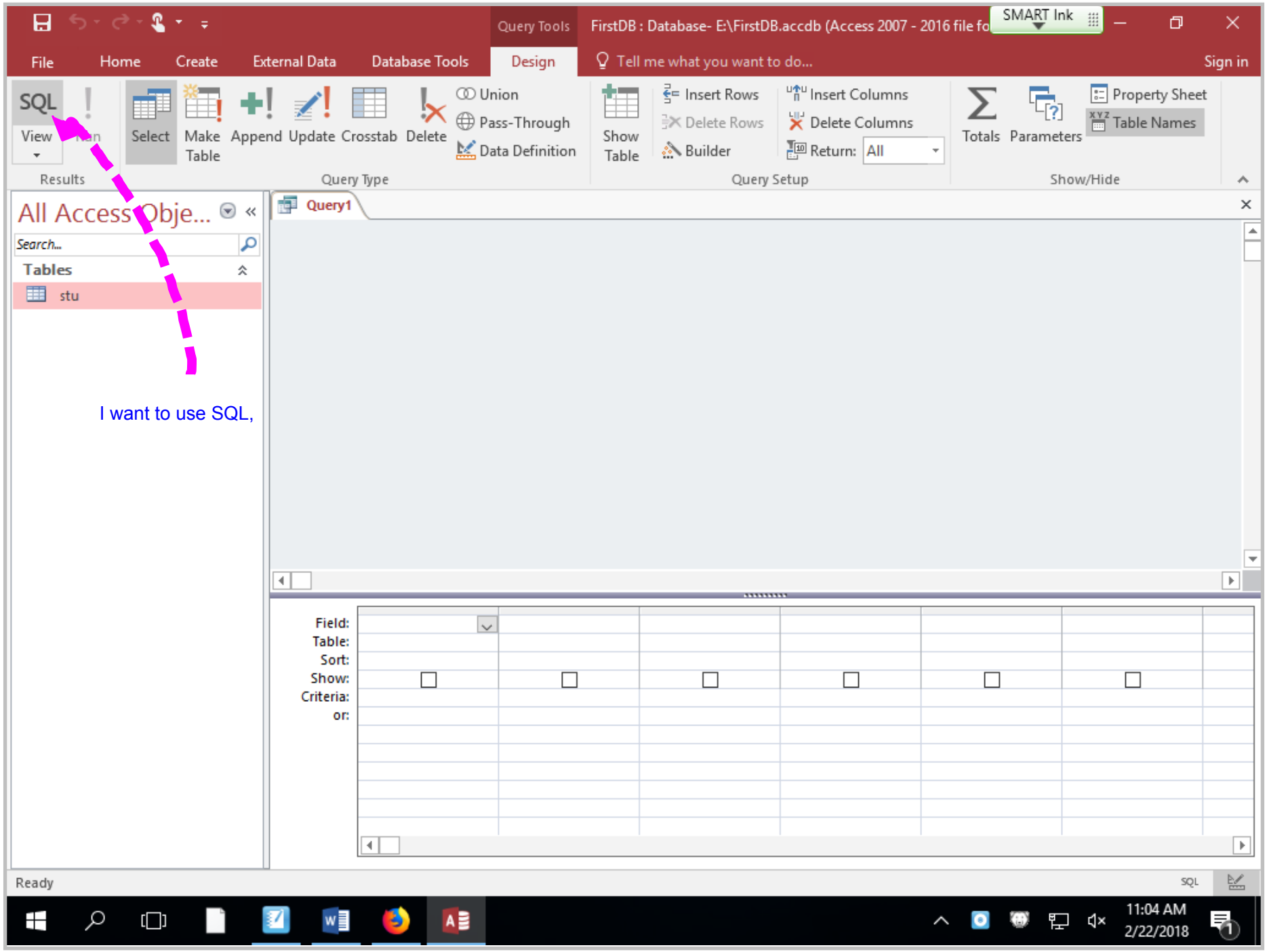
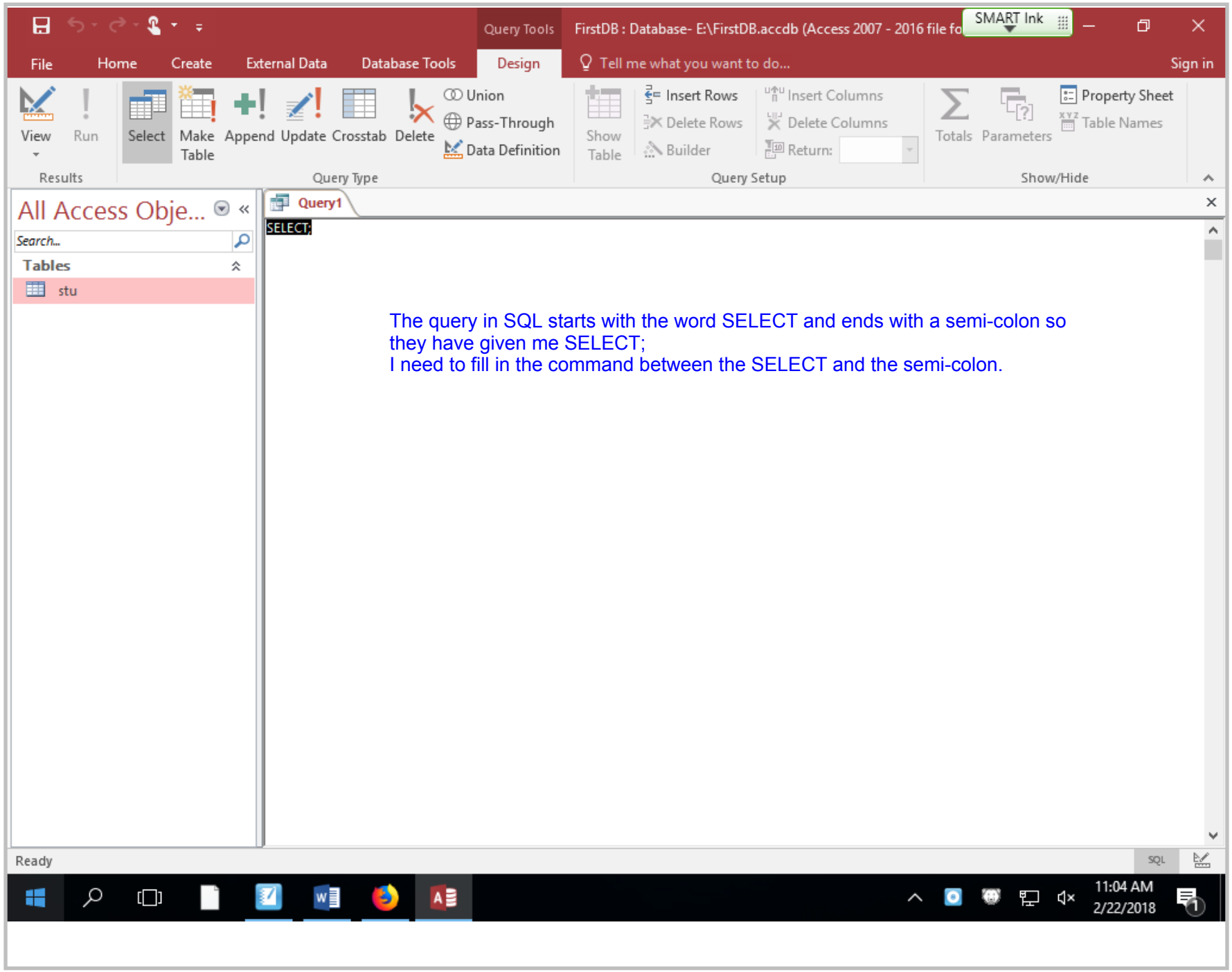
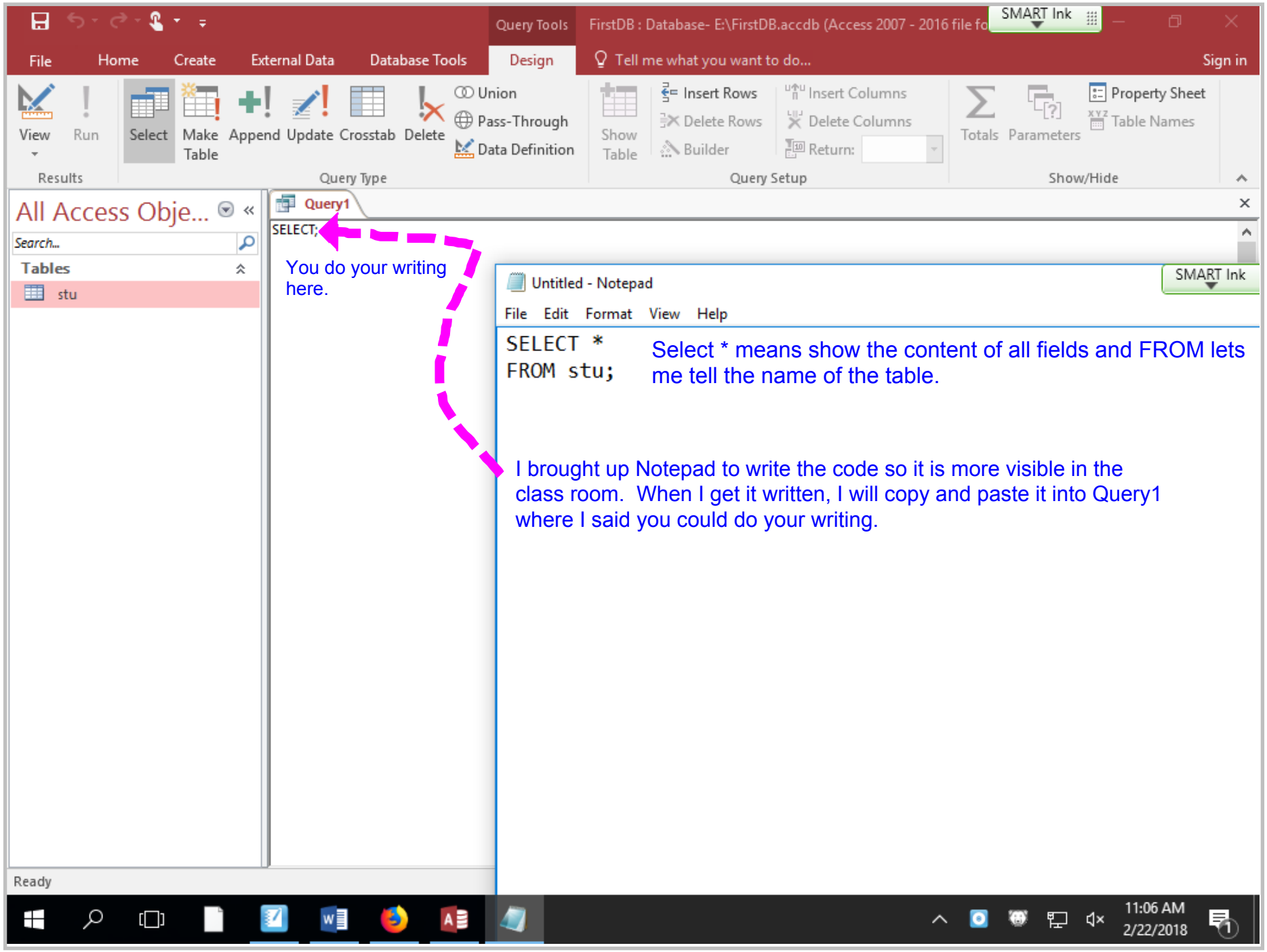
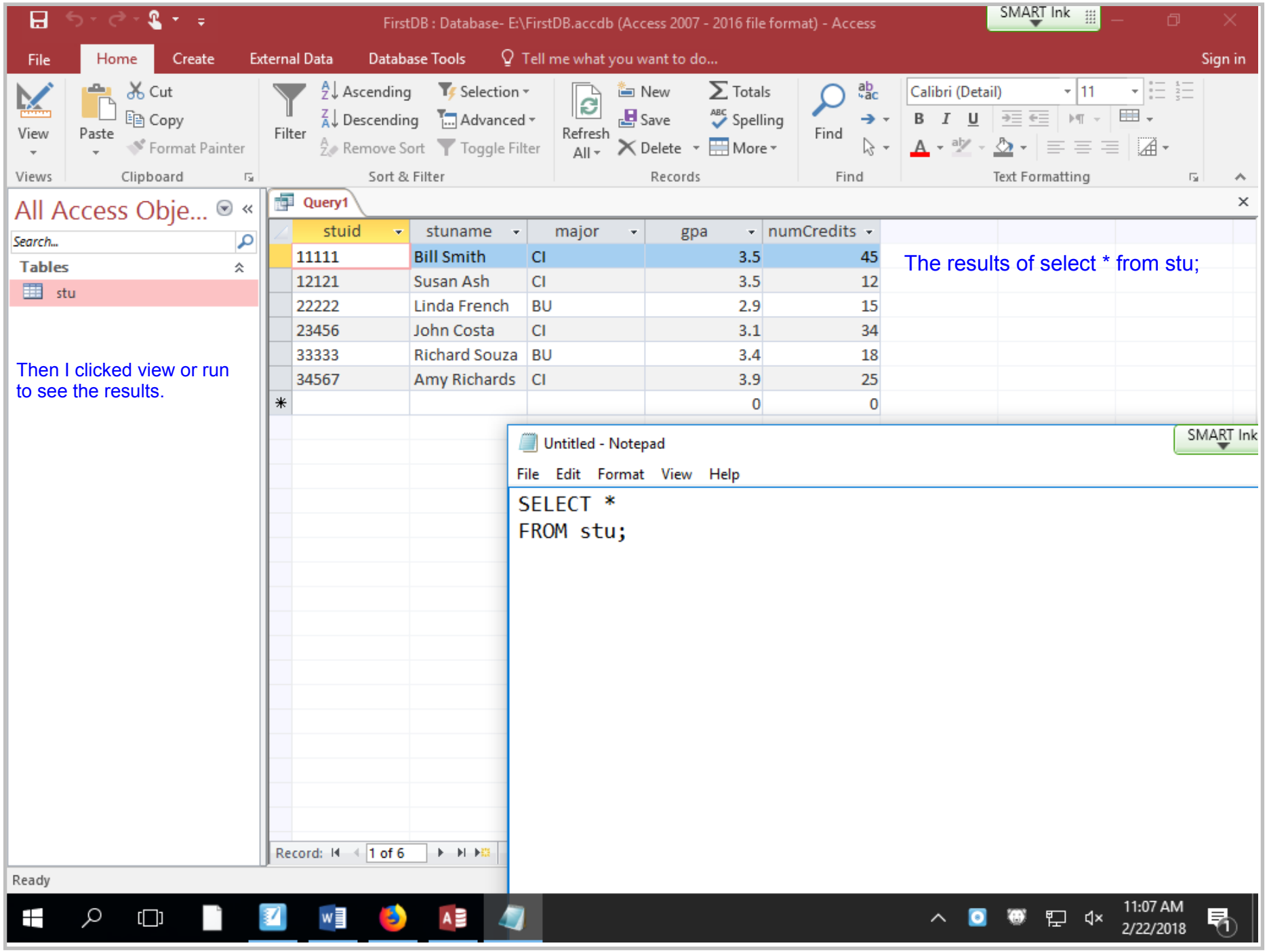
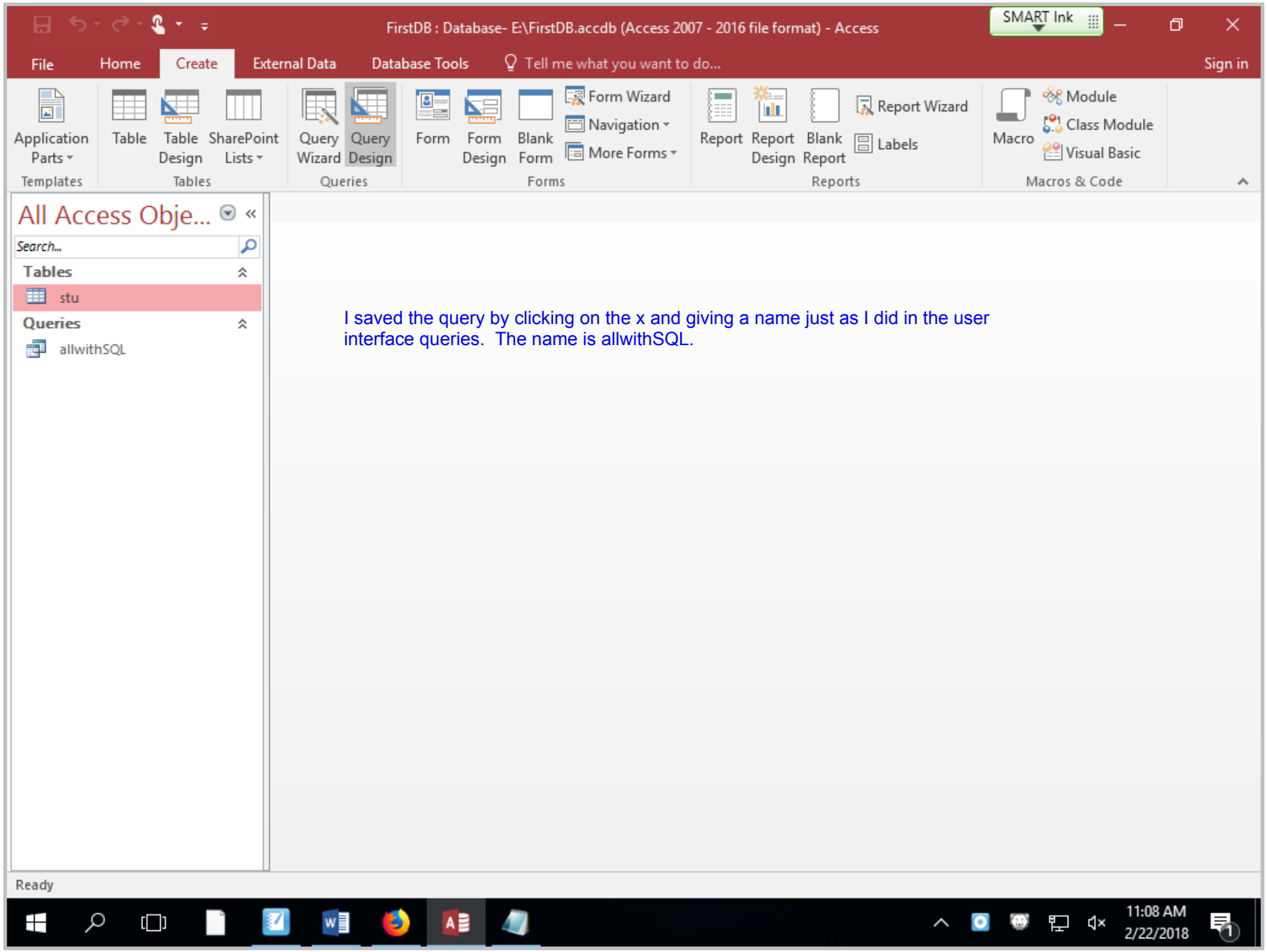

Query Tools
FirstDB : Database- E:\FirstDB.accdb (Access 2007 - 2016 file fo
SMART Ink
File
Home
Create
External Data
Database Tools
Design
Tell me what you want to do...
Sign in
SQL
View
Run
Select
Make Table
Append
Update
Crosstab
Delete
Union
Pass-Through
Data Definition
Show Table
Insert Rows
Delete Rows
Builder
Insert Columns
Delete Columns
Return: All
Totals
Parameters
Property Sheet
Table Names
Results
Query Type
Query Setup
Show/Hide
All Access Obje...
Search...
Tables
stu
Query1
I clicked on create and then design query and the opportunity to add tables came up. I closed that because I do not want to use the user interface, I want to write the query in SQL.
Show Table
Tables
Queries
Both
stu
Add
Close
Field:
Table:
Sort:
Show:
Criteria:
or:
Ready
SQL
11:03 AM
2/22/2018

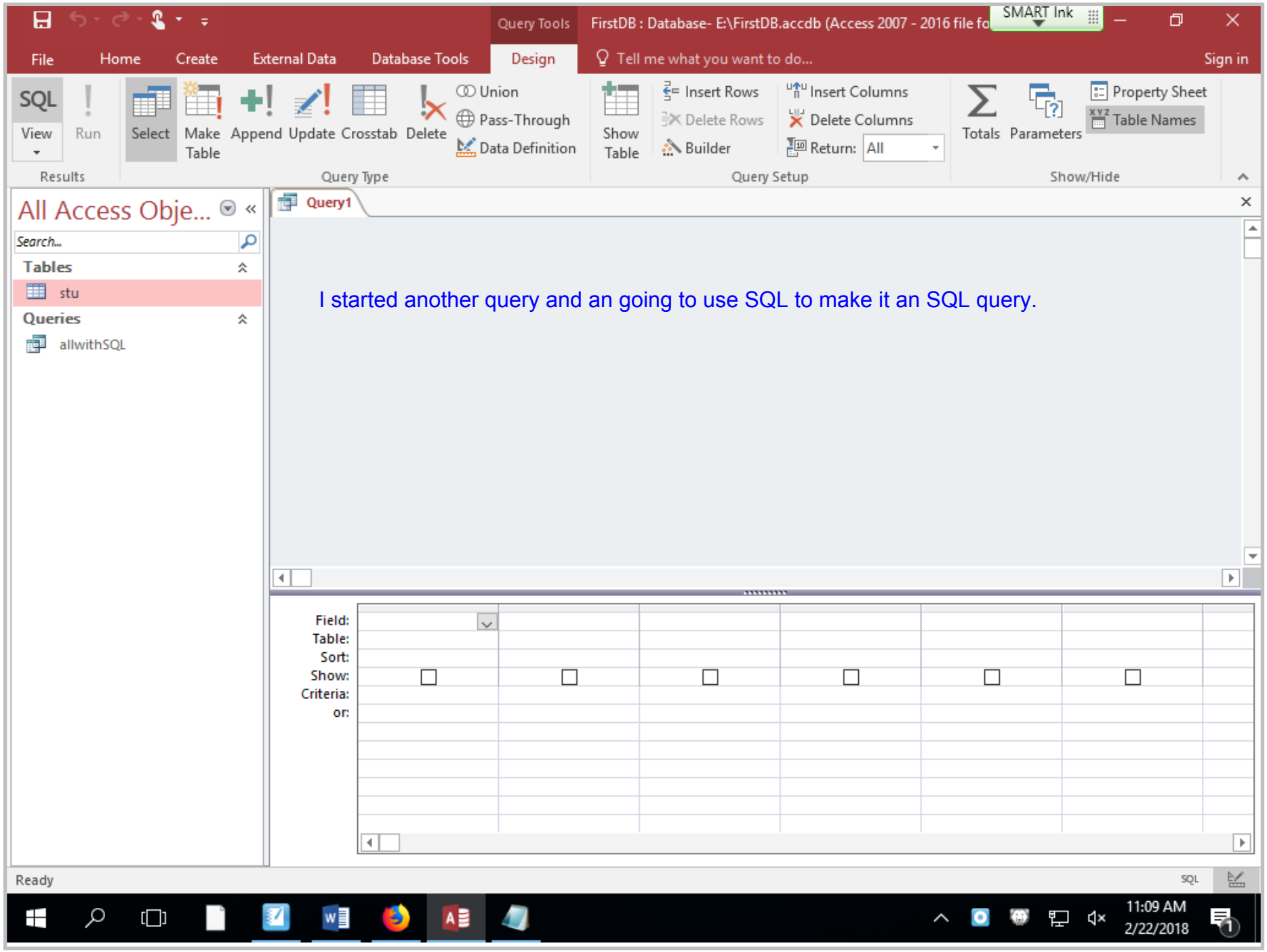

Query Tools
FirstDB : Database- E:\FirstDB.accdb (Access 2007 - 2016 file fo
SMART Ink
File
Home
Create
External Data
Database Tools
Design
Tell me what you want to do...
Sign in
SQL
View
Run
Select
Make Table
Append
Update
Crosstab
Delete
Union
Pass-Through
Data Definition
Show Table
Insert Rows
Delete Rows
Builder
Insert Columns
Delete Columns
Return: All
Totals
Parameters
Property Sheet
Table Names
Results
Query Type
Query Setup
Show/Hide
All Access Obje...
Search...
Tables
stu
I want to use SQL,
Query1
Field:
Table:
Sort:
Show:
Criteria:
or:
Ready
SQL
11:04 AM
2/22/2018

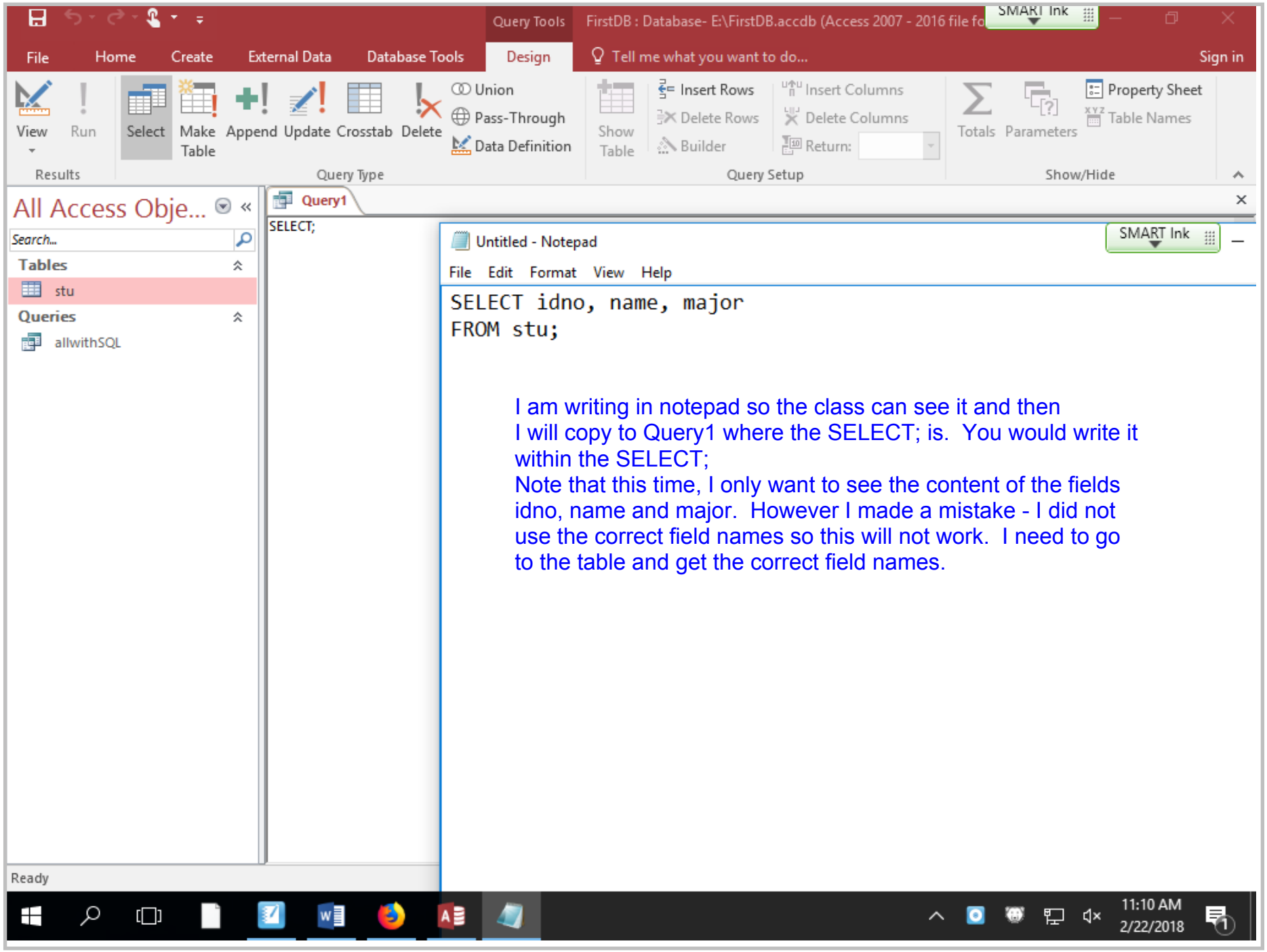

Query Tools
FirstDB : Database- E:\FirstDB.accdb (Access 2007 - 2016 file fo
SMART Ink
File
Home
Create
External Data
Database Tools
Design
Tell me what you want to do...
Sign in
View
Run
Select
Make Table
Append
Update
Crosstab
Delete
Union
Pass-Through
Data Definition
Show Table
Insert Rows
Delete Rows
Builder
Insert Columns
Delete Columns
Return:
Totals
Parameters
Property Sheet
Table Names
Results
Query Type
Query Setup
Show/Hide
All Access Obje...
Search...
Tables
stu
Query1
SELECT;
The query in SQL starts with the word SELECT and ends with a semi-colon so they have given me SELECT;
I need to fill in the command between the SELECT and the semi-colon.
Ready
SQL
11:04 AM
2/22/2018

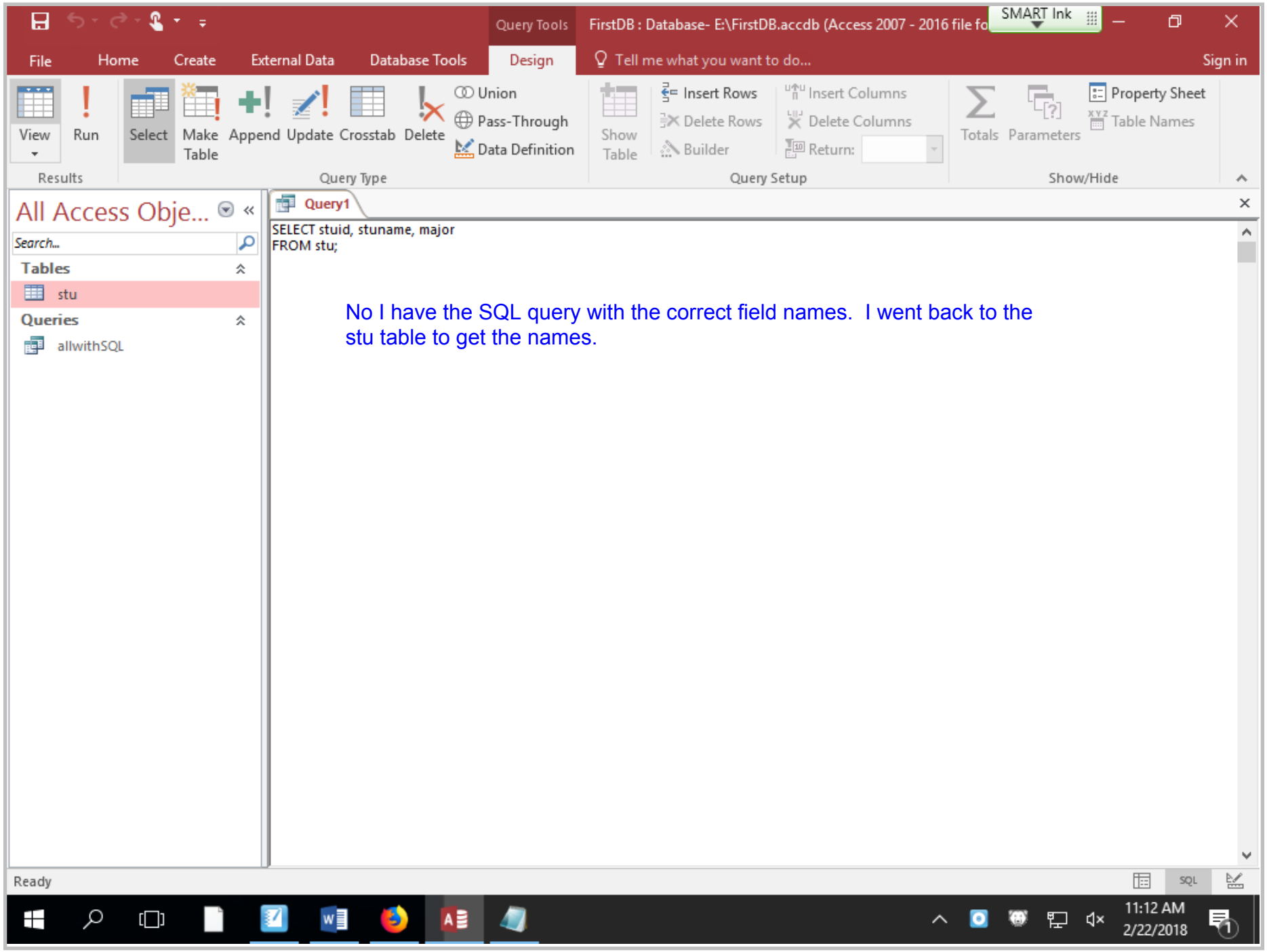

Query Tools
FirstDB : Database- E:\FirstDB.accdb (Access 2007 - 2016 file fo
SMART Ink
File
Home
Create
External Data
Database Tools
Design
Tell me what you want to do...
Sign in
View
Run
Select
Make Table
Append
Update
Crosstab
Delete
Union
Pass-Through
Data Definition
Show Table
Insert Rows
Delete Rows
Builder
Insert Columns
Delete Columns
Return:
Totals
Parameters
Property Sheet
Table Names
Results
Query Type
Query Setup
Show/Hide
All Access Obje...
Search...
Tables
stu
Query1
SELECT;
You do your writing here.
Untitled - Notepad
SMART Ink
File Edit Format View Help
SELECT *
FROM stu;
Select * means show the content of all fields and FROM lets me tell the name of the table.
I brought up Notepad to write the code so it is more visible in the class room. When I get it written, I will copy and paste it into Query1 where I said you could do your writing.
Ready
11:06 AM
2/22/2018

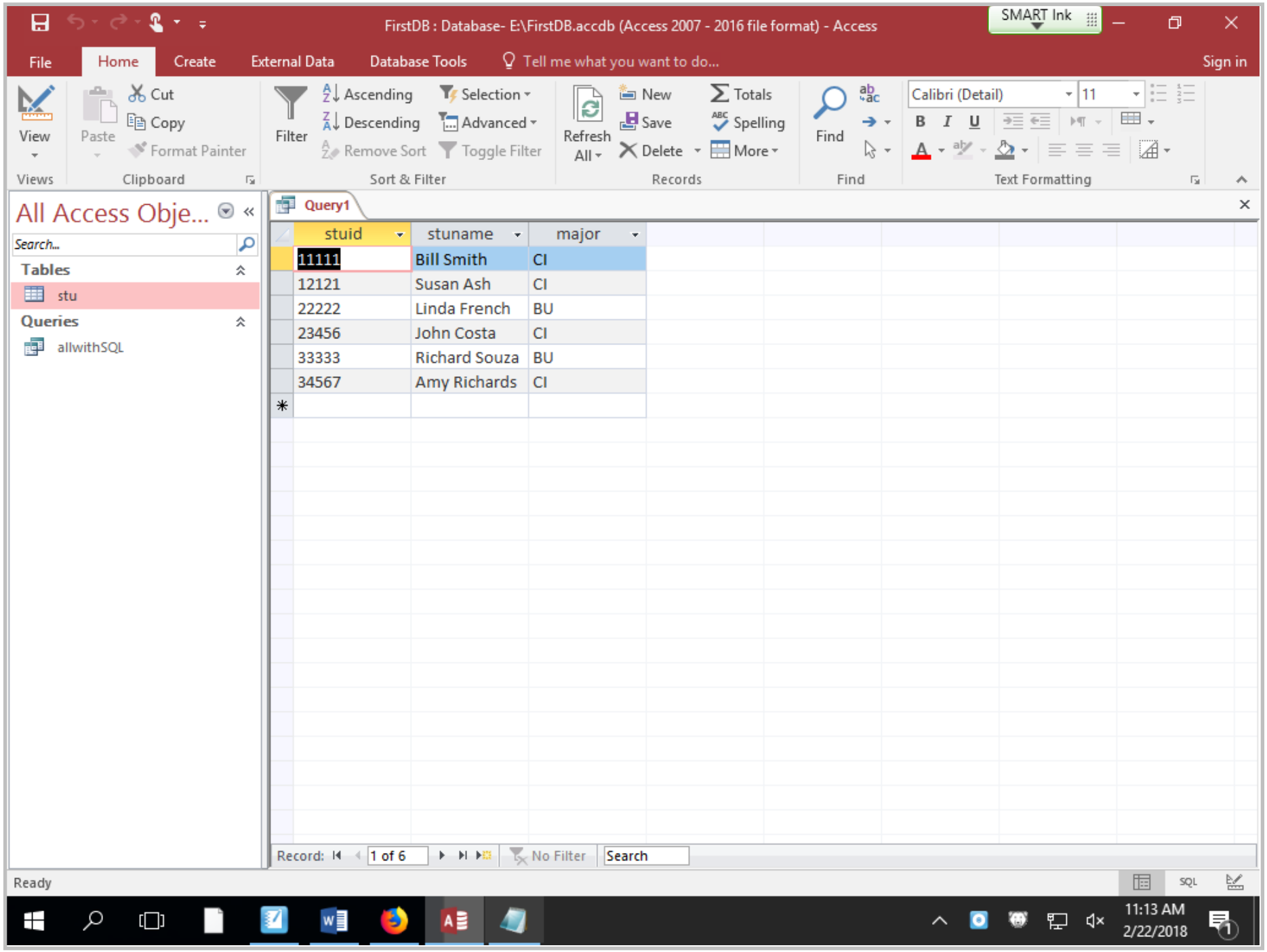

FirstDB : Database- E:\FirstDB.accdb (Access 2007 - 2016 file format) - Access
SMART Ink
File
Home
Create
External Data
Database Tools
Tell me what you want to do...
Sign in
View
Paste
Cut
Copy
Format Painter
Filter
Ascending
Descending
Remove Sort
Selection
Advanced
Toggle Filter
Refresh All
New
Save
Delete
Totals
Spelling
More
Find
Calibri (Detail)
11
Views
Clipboard
Sort & Filter
Records
Find
Text Formatting
All Access Obje...
Search...
Tables
stu
Then I clicked view or run to see the results.
Query1
stuid
stuname
major
gpa
numCredits
11111 Bill Smith CI 3.5 45
12121 Susan Ash CI 3.5 12
22222 Linda French BU 2.9 15
23456 John Costa CI 3.1 34
33333 Richard Souza BU 3.4 18
34567 Amy Richards CI 3.9 25
0 0
The results of select * from stu;
Untitled - Notepad
SMART Ink
File Edit Format View Help
SELECT *
FROM stu;
Record: 1 of 6
Ready
11:07 AM
2/22/2018

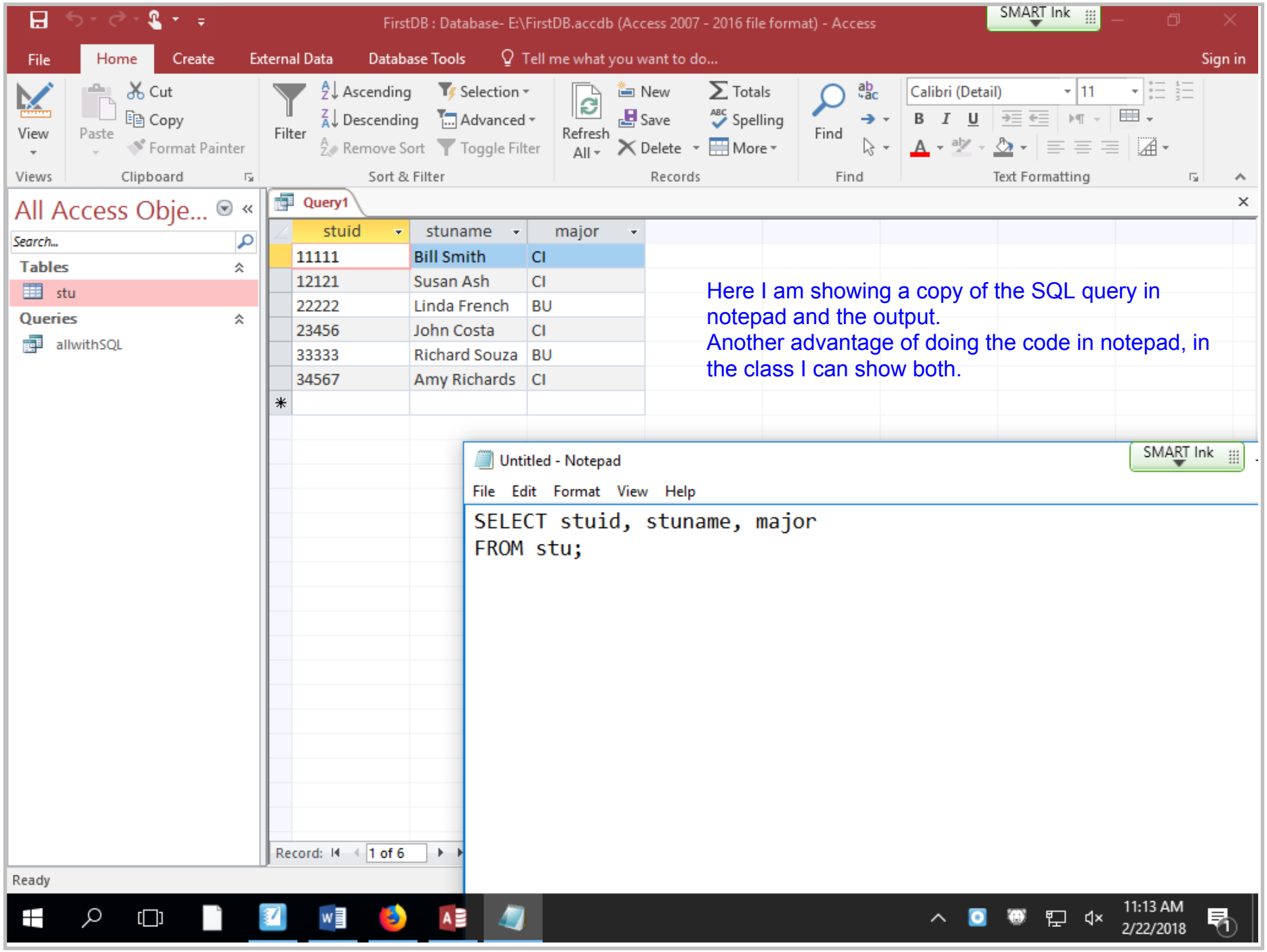

FirstDB : Database- E:\FirstDB.accdb (Access 2007 - 2016 file format) - Access
SMART Ink
File
Home
Create
External Data
Database Tools
Tell me what you want to do...
Sign in
Application Parts
Table
Table Design
SharePoint Lists
Templates
Tables
Query Wizard
Query Design
Queries
Form
Form Design
Blank Form
Form Wizard
Navigation
More Forms
Forms
Report
Report Design
Blank Report
Report Wizard
Labels
Reports
Macro
Module
Class Module
Visual Basic
Macros & Code
All Access Obje...
Search...
Tables
stu
Queries
allwithSQL
I saved the query by clicking on the x and giving a name just as I did in the user interface queries. The name is allwithSQL.
Ready
11:08 AM
2/22/2018


Query Tools
FirstDB : Database- E:\FirstDB.accdb (Access 2007 - 2016 file fo
SMART Ink
File
Home
Create
External Data
Database Tools
Design
Tell me what you want to do...
Sign in
SQL
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 Access Obje...
Search...
Tables
stu
Queries
allwithSQL
Query1
I started another query and an going to use SQL to make it an SQL query.
Field:
Table:
Sort:
Show:
Criteria:
or:
Ready
SQL
11:09 AM
2/22/2018


Query Tools
FirstDB : Database- E:\FirstDB.accdb (Access 2007 - 2016 file fo
SMART Ink
File
Home
Create
External Data
Database Tools
Design
Tell me what you want to do...
Sign in
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
Results
Query Type
Query Setup
Show/Hide
All Access Obje...
Search...
Tables
stu
Queries
allwithSQL
Query1
SELECT;
Untitled - Notepad
SMART Ink
File Edit Format View Help
SELECT idno, name, major
FROM stu;
I am writing in notepad so the class can see it and then
I will copy to Query1 where the SELECT; is. You would write it
within the SELECT;
Note that this time, I only want to see the content of the fields
idno, name and major. However I made a mistake - I did not
use the correct field names so this will not work. I need to go
to the table and get the correct field names.
Ready
11:10 AM
2/22/2018


Query Tools
FirstDB : Database- E:\FirstDB.accdb (Access 2007 - 2016 file fo
SMART Ink
File
Home
Create
External Data
Database Tools
Design
Tell me what you want to do...
Sign in
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
Results
Query Type
Query Setup
Show/Hide
All Access Obje...
Search...
Tables
stu
Queries
allwithSQL
Query1
SELECT stuid, stuname, major
FROM stu;
No I have the SQL query with the correct field names. I went back to the stu table to get the names.
Ready
SQL
11:12 AM
2/22/2018


FirstDB : Database- E:\FirstDB.accdb (Access 2007 - 2016 file format) - Access
SMART Ink
File
Home
Create
External Data
Database Tools
Tell me what you want to do...
Sign in
View
Paste
Cut
Copy
Format Painter
Filter
Ascending
Descending
Remove Sort
Selection
Advanced
Toggle Filter
Refresh All
New
Save
Delete
Totals
Spelling
More
Find
Calibri (Detail)
11
Views
Clipboard
Sort & Filter
Records
Find
Text Formatting
All Access Obje...
Search...
Tables
stu
Queries
allwithSQL
Query1
stuid
stuname
major
11111
Bill Smith
CI
12121
Susan Ash
CI
22222
Linda French
BU
23456
John Costa
CI
33333
Richard Souza
BU
34567
Amy Richards
CI
Record:
1 of 6
No Filter
Search
Ready
SQL
11:13 AM
2/22/2018


FirstDB : Database- E:\FirstDB.accdb (Access 2007 - 2016 file format) - Access
SMART Ink
File
Home
Create
External Data
Database Tools
Tell me what you want to do...
Sign in
View
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Ascending
Descending
Remove Sort
Selection
Advanced
Toggle Filter
Refresh All
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Delete
Totals
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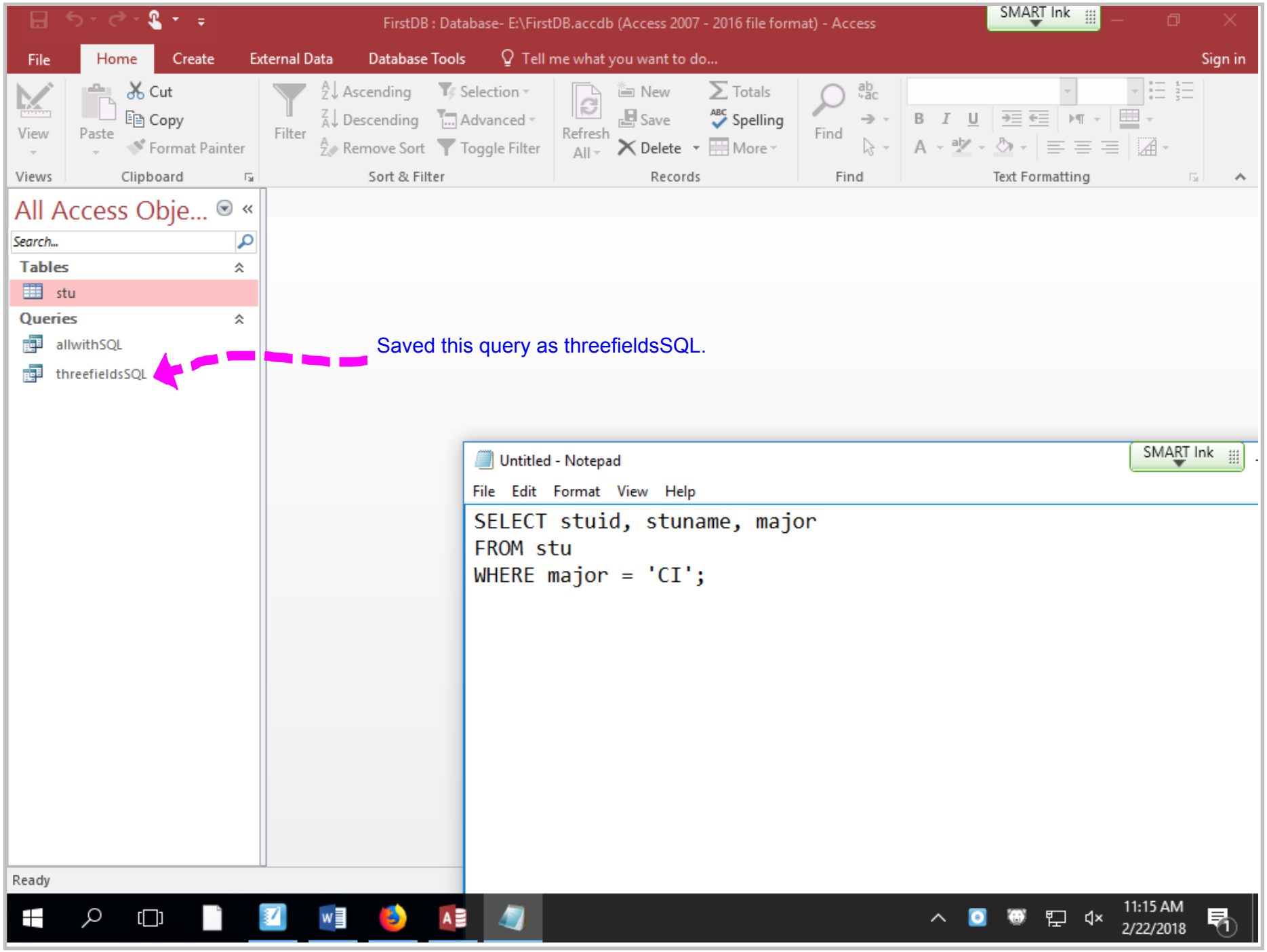
More
Find
Calibri (Detail)
11
Views
Clipboard
Sort & Filter
Records
Find
Text Formatting
All Access Obje...
Search...
Tables
stu
Queries
allwithSQL
Query1
stuid
stuname
major
11111 Bill Smith CI
12121 Susan Ash CI
22222 Linda French BU
23456 John Costa CI
33333 Richard Souza BU
34567 Amy Richards CI
Here I am showing a copy of the SQL query in notepad and the output.
Another advantage of doing the code in notepad, in the class I can show both.
Untitled - Notepad
SMART Ink
File Edit Format View Help
SELECT stuid, stuname, major
FROM stu;
Record: 1 of 6
Ready
11:13 AM
2/22/2018


FirstDB : Database- E:\FirstDB.accdb (Access 2007 - 2016 file format) - Access
SMART Ink
File
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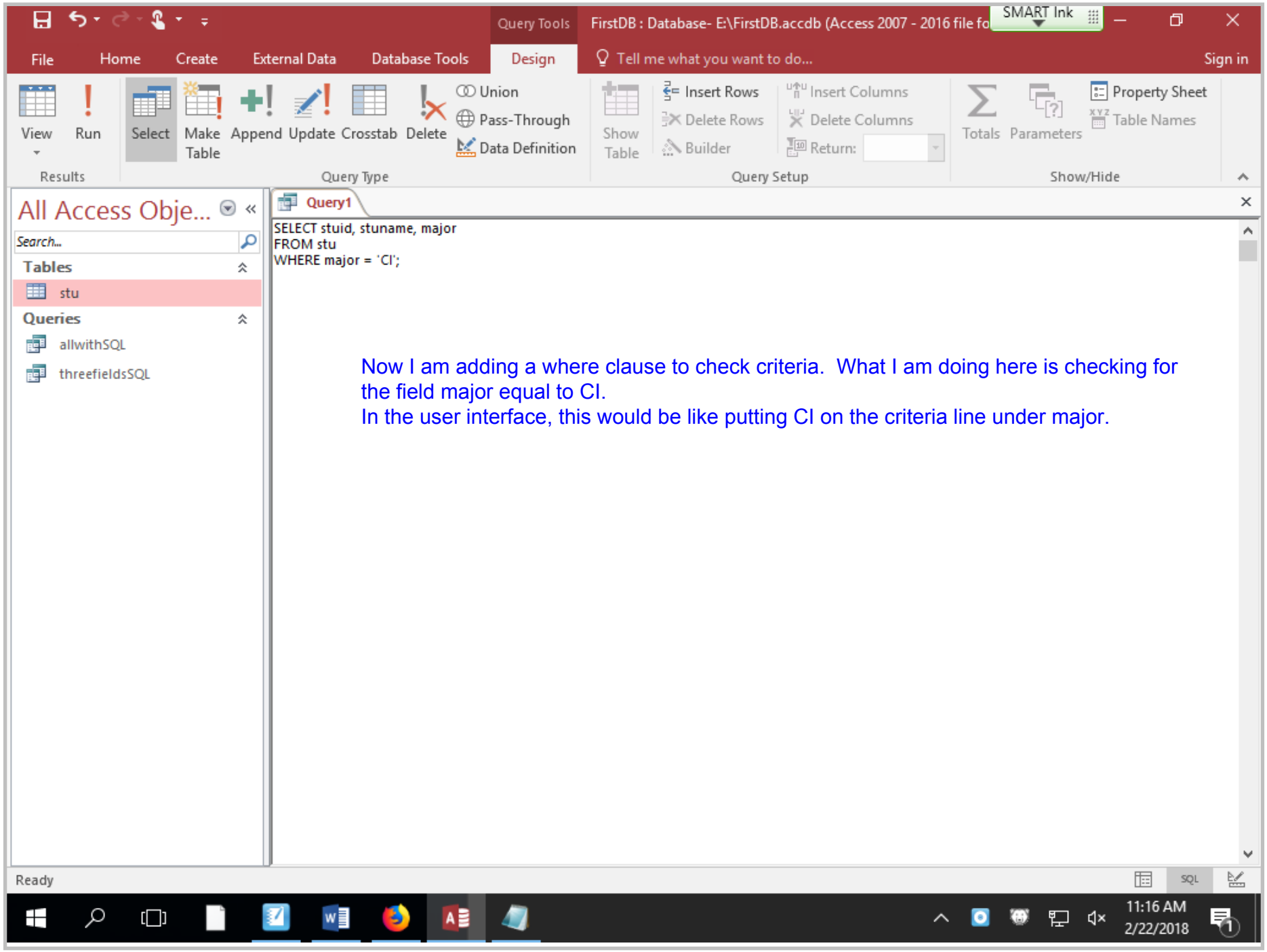
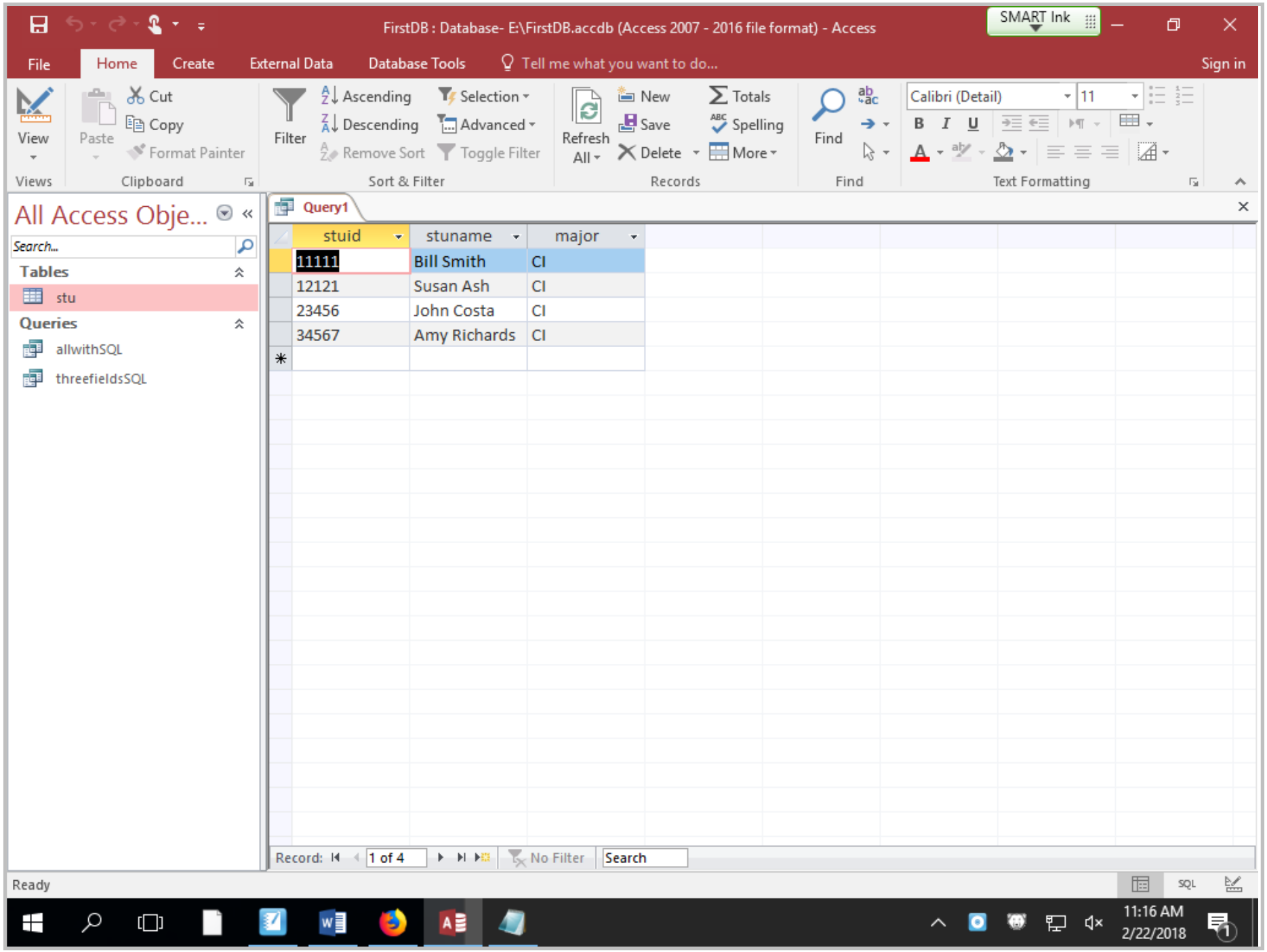
Create
External Data
Database Tools
Tell me what you want to do...
Sign in
View
Paste
Cut
Copy
Format Painter
Filter
Ascending
Descending
Remove Sort
Selection
Advanced
Toggle Filter
Refresh All
New
Save
Delete
Totals
Spelling
More
Find
Views
Clipboard
Sort & Filter
Records
Find
Text Formatting
All Access Obje...
Search...
Tables
stu
Queries
allwithSQL
threefieldsSQL
Saved this query as threefieldsSQL.
Untitled - Notepad
SMART Ink
File Edit Format View Help
SELECT stuid, stuname, major
FROM stu
WHERE major = 'CI';
Ready
11:15 AM
2/22/2018


Query Tools
FirstDB : Database- E:\FirstDB.accdb (Access 2007 - 2016 file fo
SMART Ink
File
Home
Create
External Data
Database Tools
Design
Tell me what you want to do...
Sign in
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
Results
Query Type
Query Setup
Show/Hide
All Access Obje...
Search...
Tables
stu
Queries
allwithSQL
threefieldsSQL
Query1
SELECT stuid, stuname, major
FROM stu
WHERE major = 'CI';
Now I am adding a where clause to check criteria. What I am doing here is checking for the field major equal to CI.
In the user interface, this would be like putting CI on the criteria line under major.
Ready
SQL
11:16 AM
2/22/2018


FirstDB : Database- E:\FirstDB.accdb (Access 2007 - 2016 file format) - Access
SMART Ink
File
Home
Create
External Data
Database Tools
Tell me what you want to do...
Sign in
View
Paste
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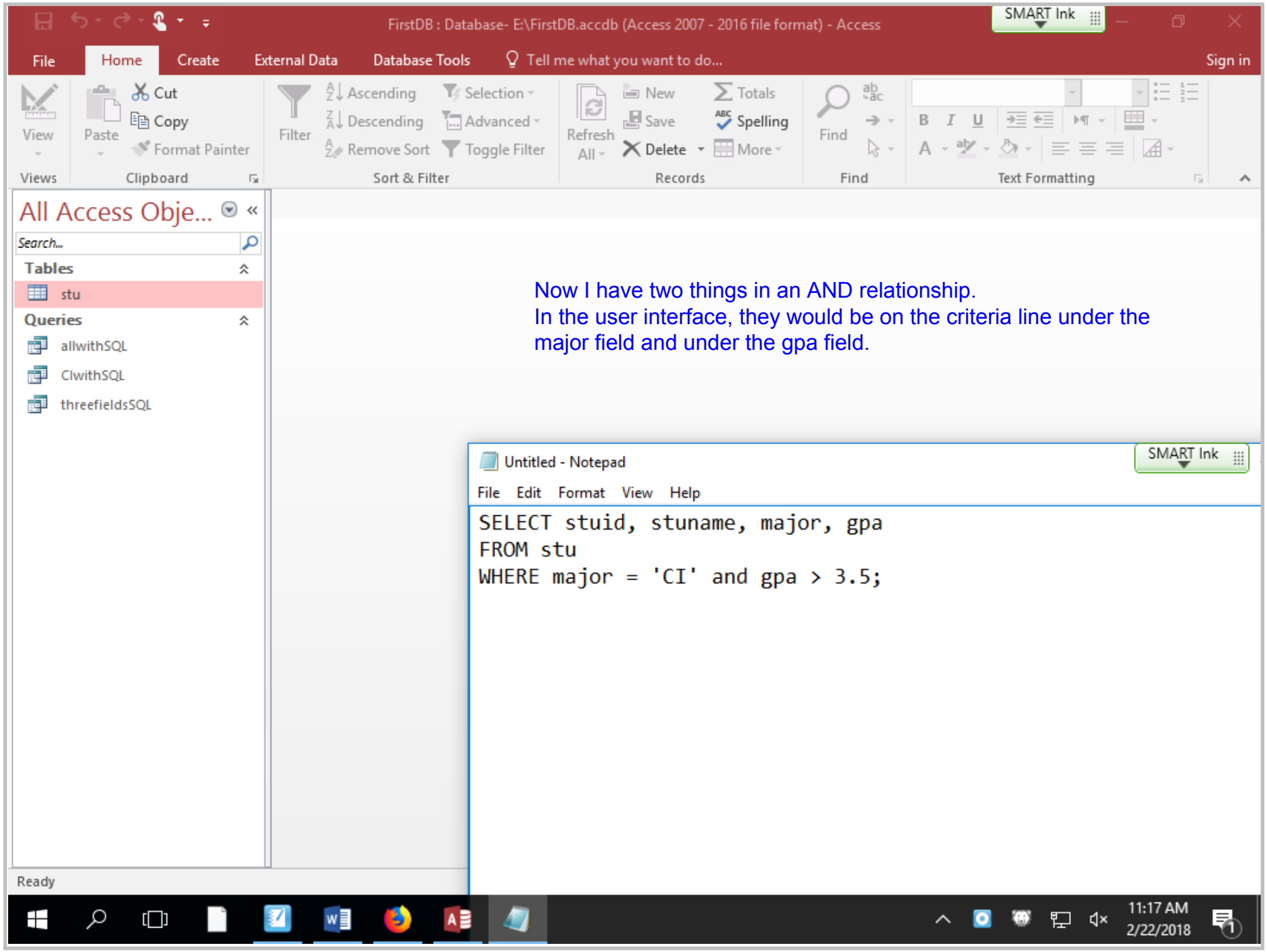
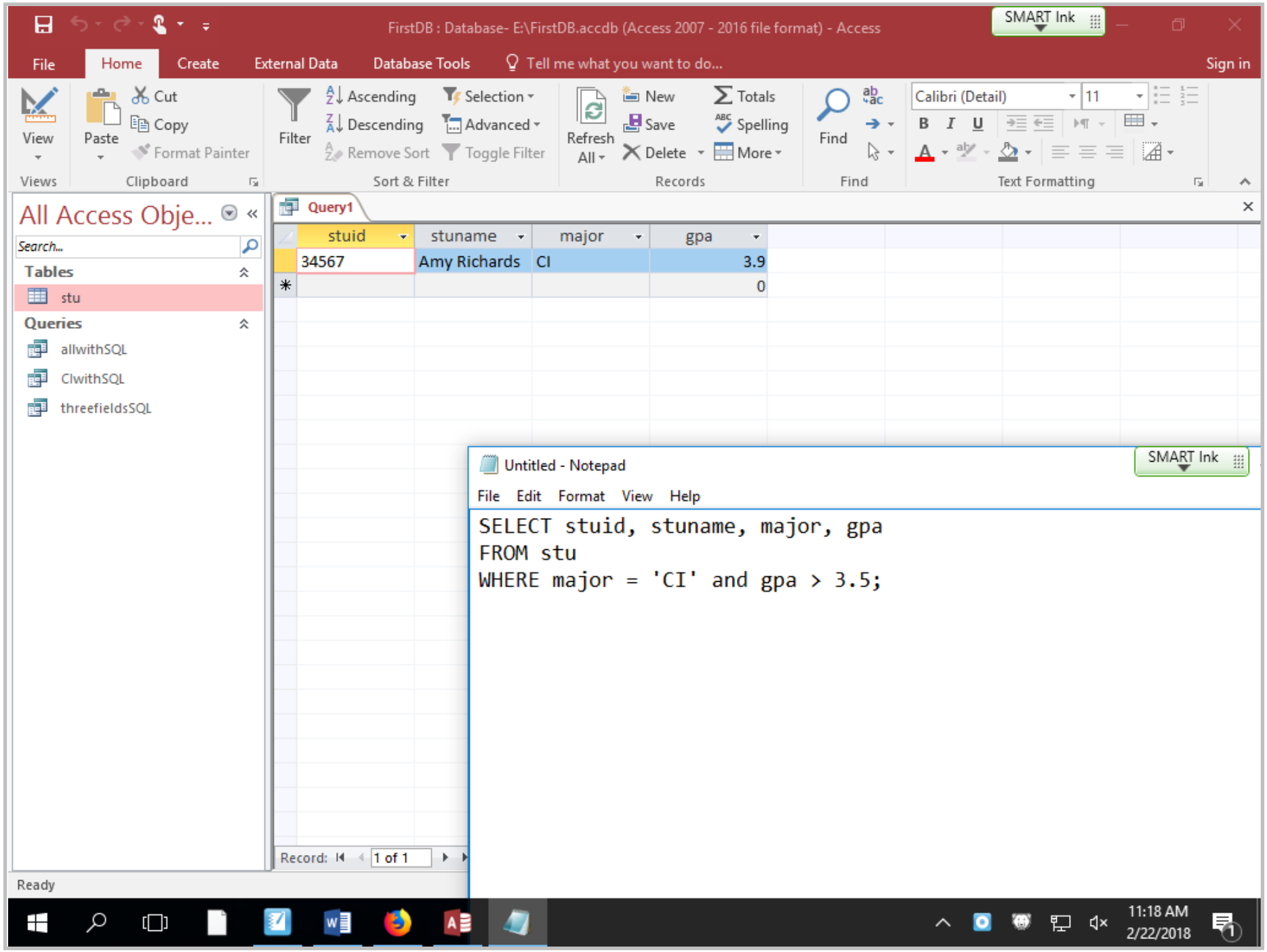
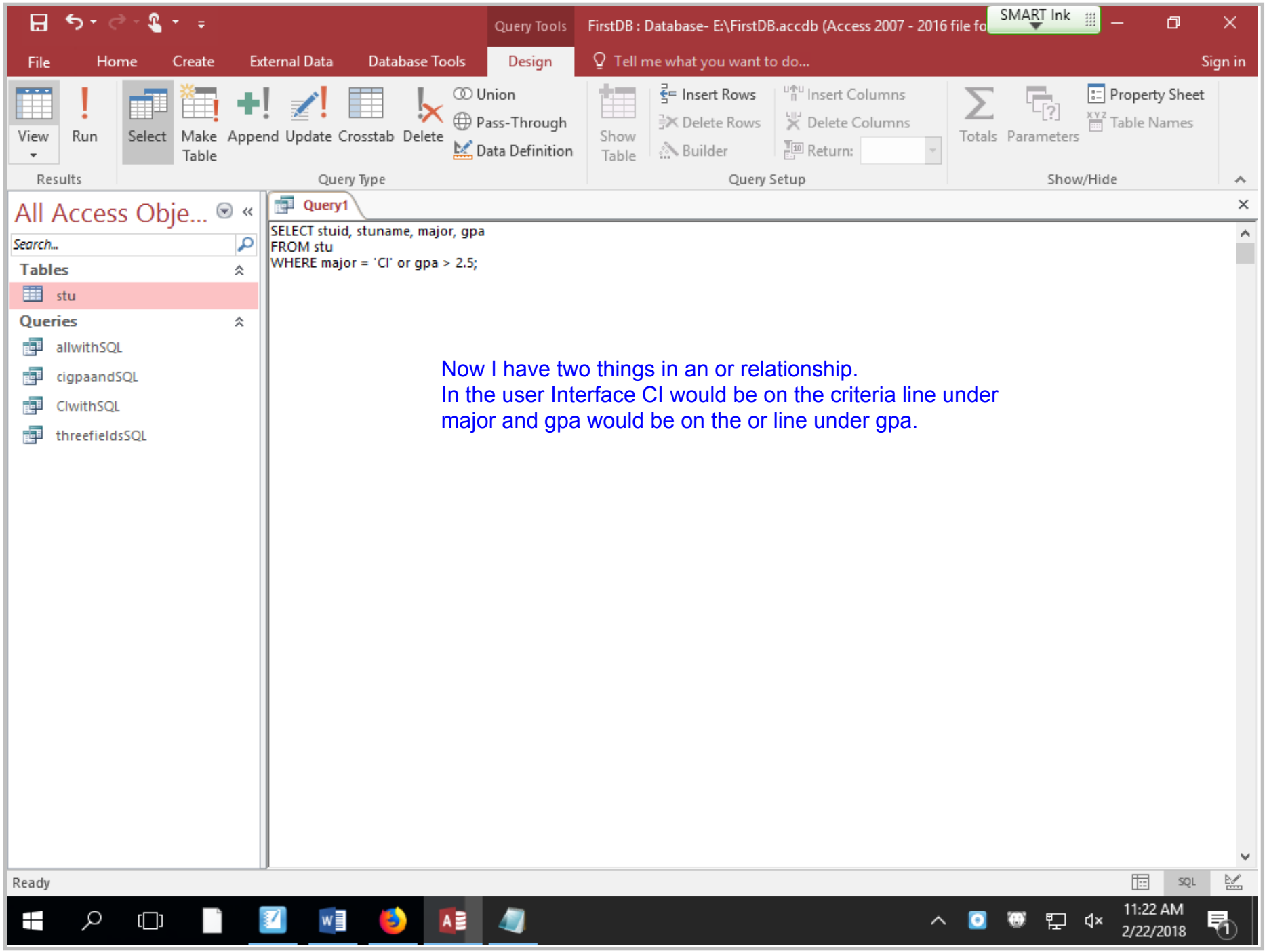
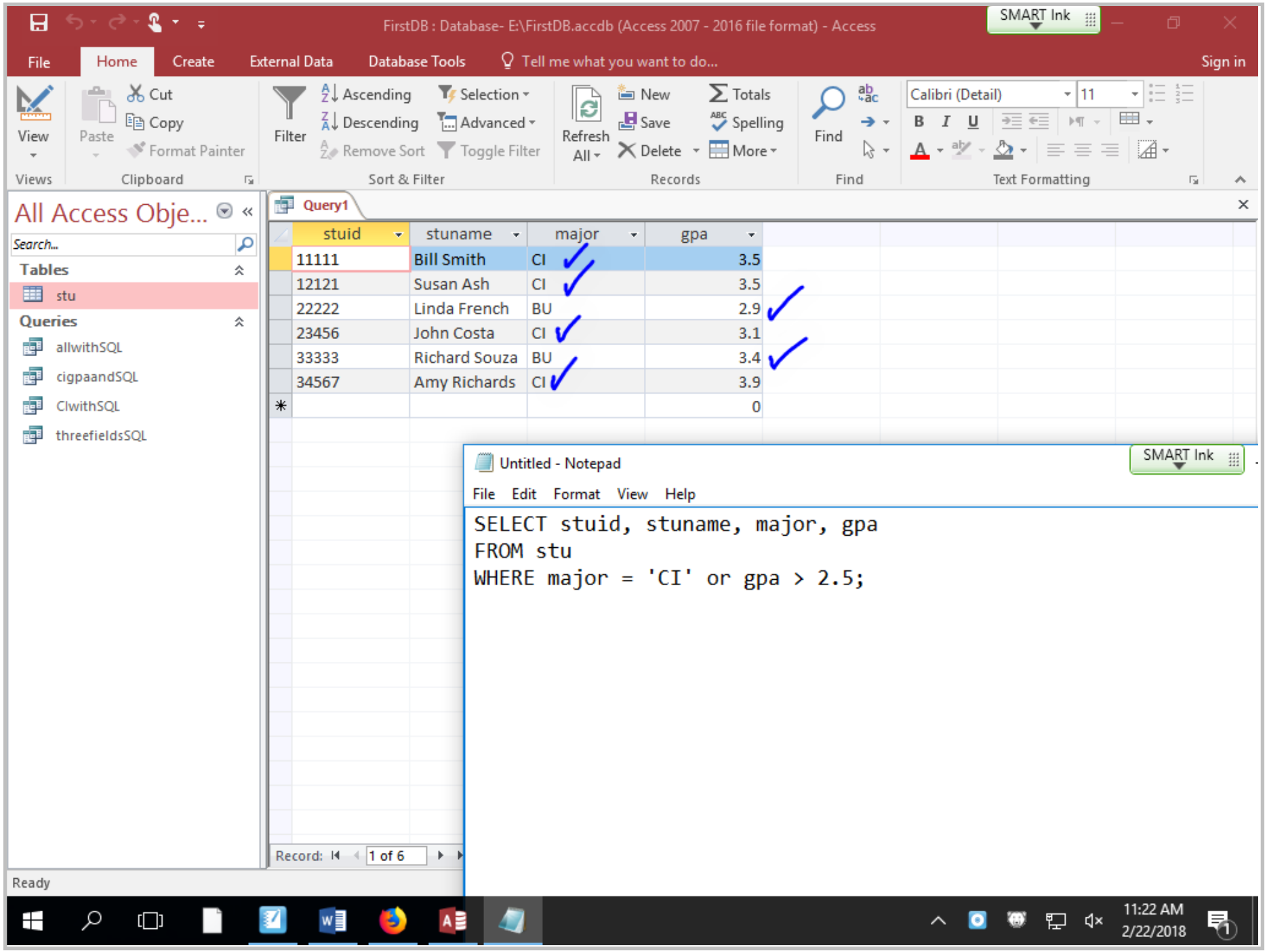
Format Painter
Filter
Ascending
Descending
Remove Sort
Selection
Advanced
Toggle Filter
Refresh All
New
Save
Delete
Totals
Spelling
More
Find
Calibri (Detail)
11
Views
Clipboard
Sort & Filter
Records
Find
Text Formatting
All Access Obje...
Search...
Tables
stu
Queries
allwithSQL
threefieldsSQL
Query1
stuid
stuname
major
11111
Bill Smith
CI
12121
Susan Ash
CI
23456
John Costa
CI
34567
Amy Richards
CI
Record:
1 of 4
No Filter
Search
Ready
SQL
11:16 AM
2/22/2018


FirstDB : Database- E:\FirstDB.accdb (Access 2007 - 2016 file format) - Access
SMART Ink
File
Home
Create
External Data
Database Tools
Tell me what you want to do...
Sign in
View
Paste
Cut
Copy
Format Painter
Filter
Ascending
Descending
Remove Sort
Selection
Advanced
Toggle Filter
Refresh All
New
Save
Delete
Totals
Spelling
More
Find
Views
Clipboard
Sort & Filter
Records
Find
Text Formatting
All Access Obje...
Search...
Tables
stu
Queries
allwithSQL
ClwithSQL
threefieldsSQL
Now I have two things in an AND relationship.
In the user interface, they would be on the criteria line under the major field and under the gpa field.
Untitled - Notepad
SMART Ink
File Edit Format View Help
SELECT stuid, stuname, major, gpa
FROM stu
WHERE major = 'CI' and gpa > 3.5;
Ready
11:17 AM
2/22/2018

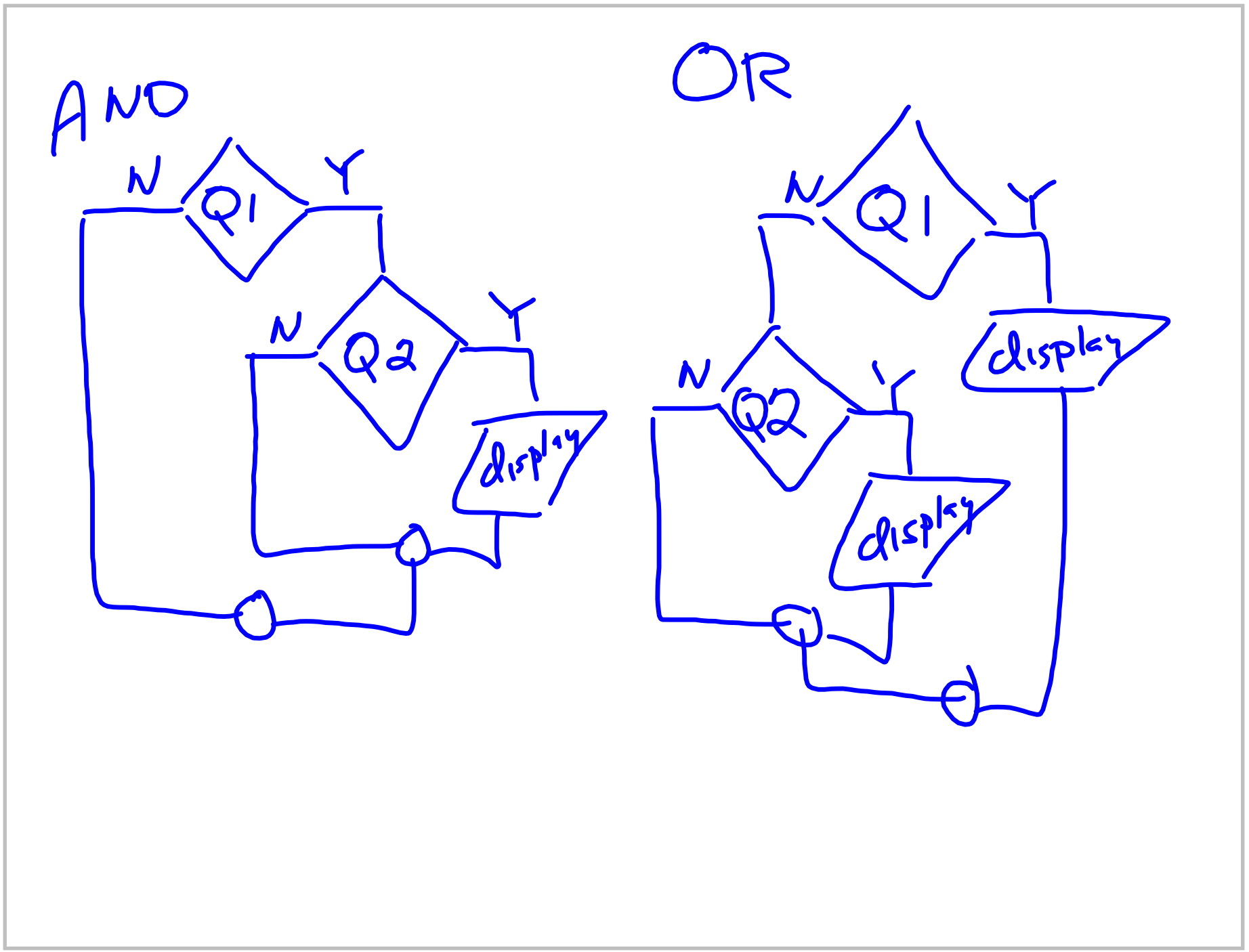


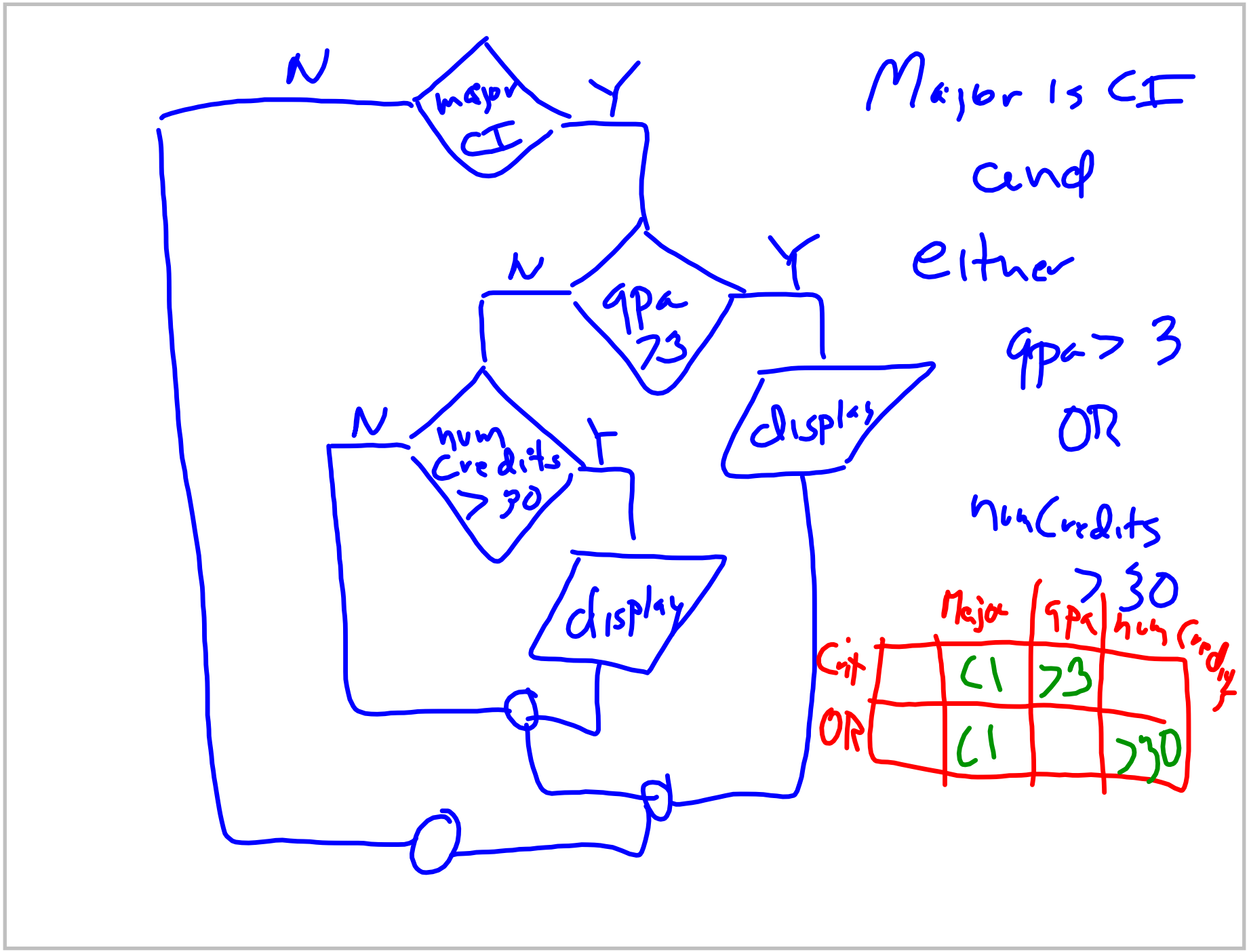
Title: Feb 22-11:18 AM (16 of 39)

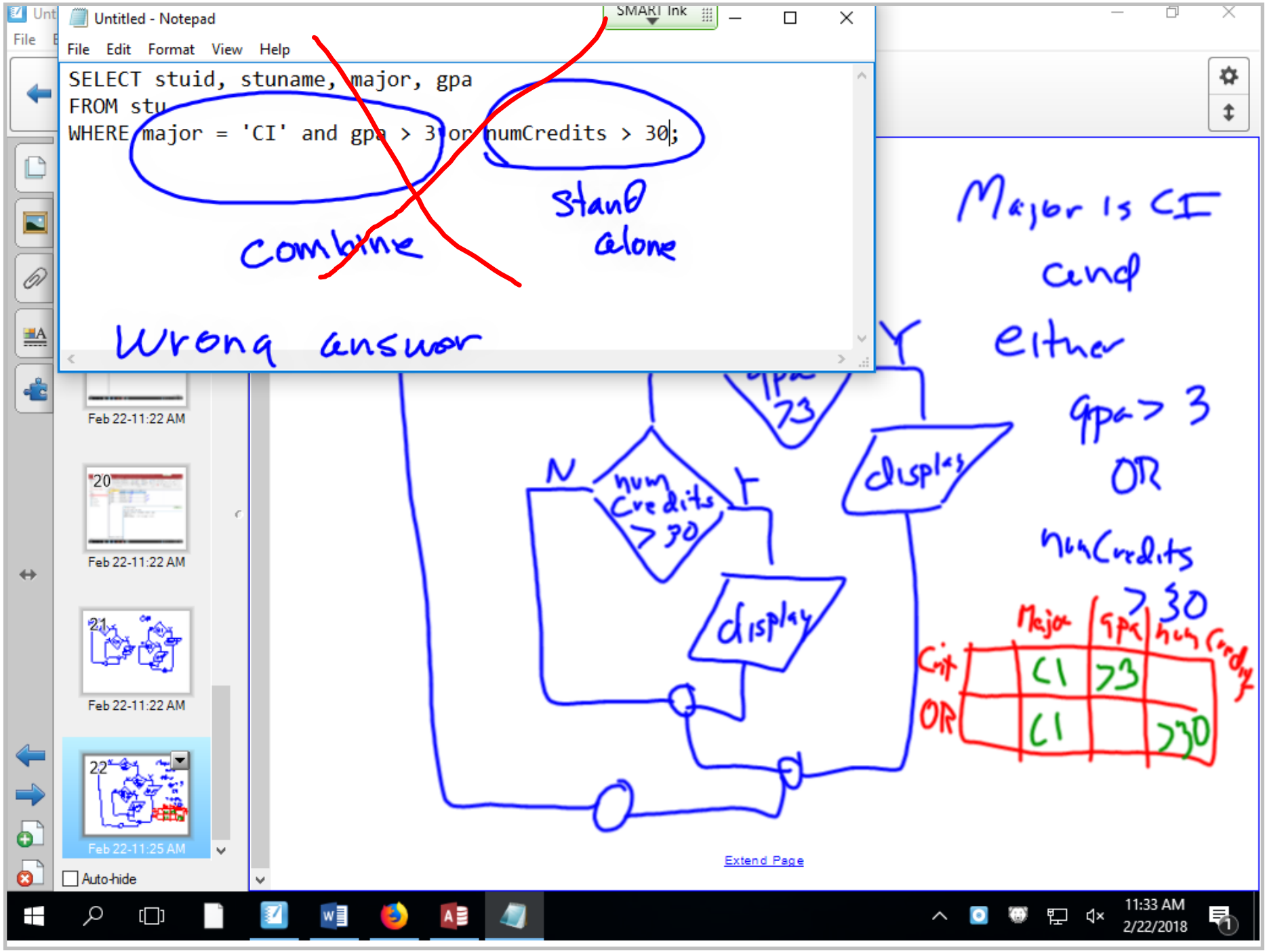

Query Tools
FirstDB : Database- E:\FirstDB.accdb (Access 2007 - 2016 file fo
SMART Ink
File
Home
Create
External Data
Database Tools
Design
Tell me what you want to do...
Sign in
View
Run
Select
Make Table
Append
Update
Crosstab
Delete
Union
Pass-Through
Data Definition
Show Table
Insert Rows
Delete Rows
Builder
Insert Columns
Delete Columns
Return:
Totals
Parameters
Property Sheet
Table Names
Results
Query Type
Query Setup
Show/Hide
All Access Obje...
Search...
Tables
stu
Queries
allwithSQL
cigpaandSQL
ClwithSQL
threefieldsSQL
Query1
SELECT stuid, stuname, major, gpa
FROM stu
WHERE major = 'CI' or gpa > 2.5;
Now I have two things in an or relationship.
In the user Interface CI would be on the criteria line under
major and gpa would be on the or line under gpa.
Ready
SQL
11:22 AM
2/22/2018



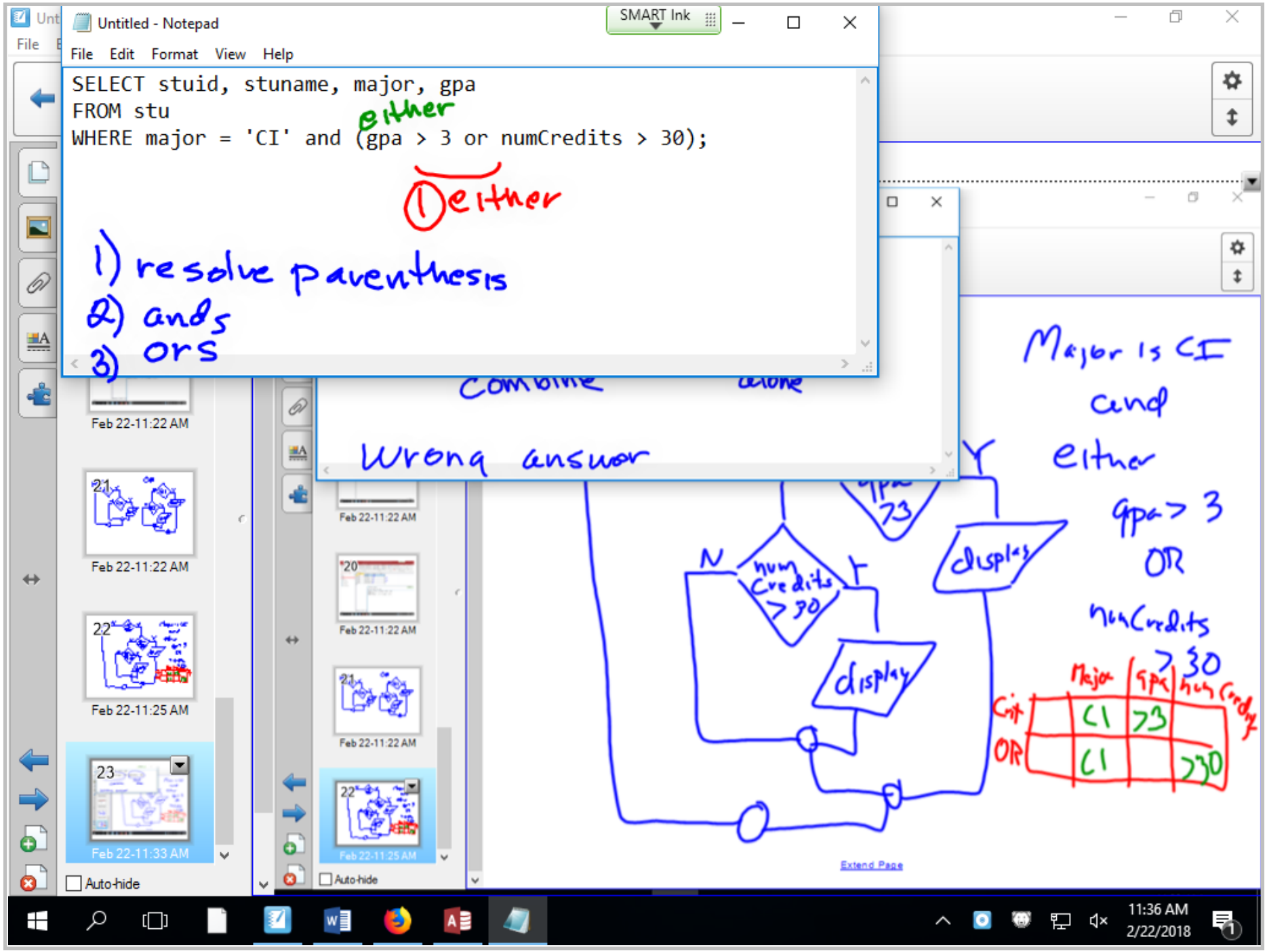
Title: Feb 22-11:22 AM (18 of 39)


AND
N
Q1
Y
N
Q2
Y
display
OR
N
Q1
Y
display
N
Q2
Y
display

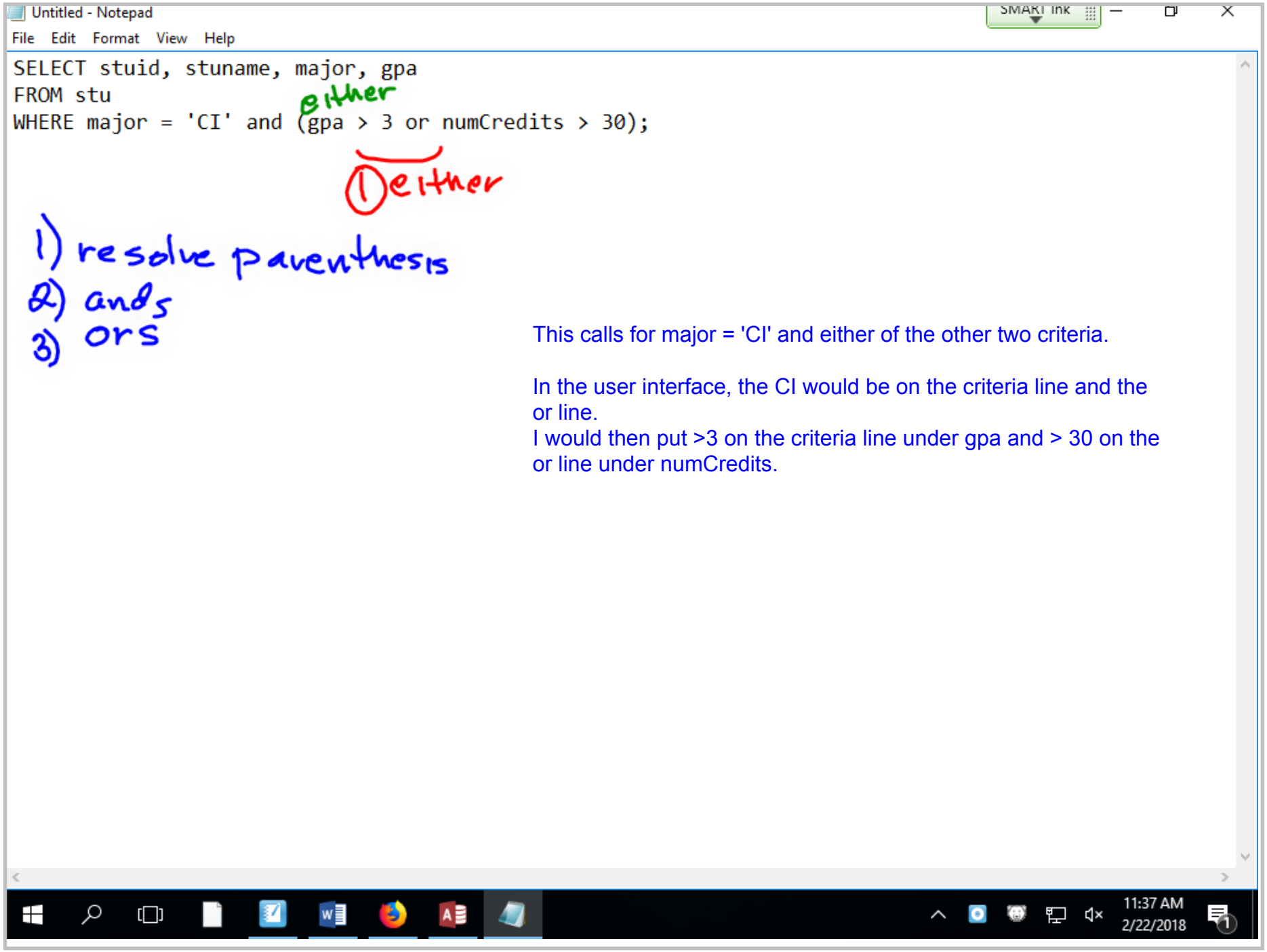

N
major CI
Y
N
gpa 3
Y
N
num Credits > 30
Y
display
display
Major is CI
and
either
gpa > 3
OR
numCredits > 30
Major
gpa
numCredits
CS
CI
>3
OR
CI
>30

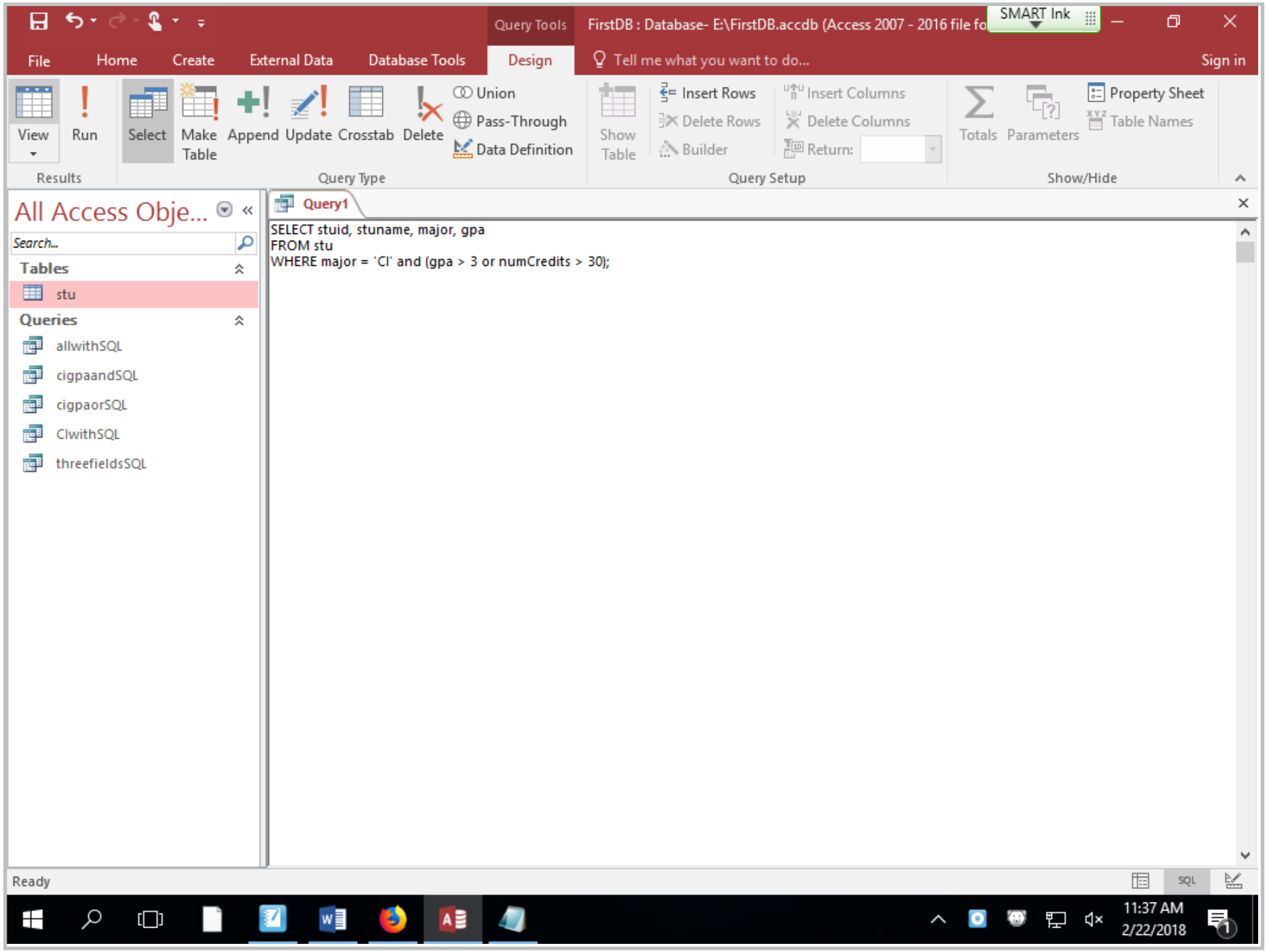


Title: Feb 22-11:33 AM (21 of 39)



Title: Feb 22-11:36 AM (22 of 39)


Untitled - Notepad
File Edit Format View Help
SELECT stuid, stuname, major, gpa
FROM stu
WHERE major = 'CI' and (gpa > 3 or numCredits > 30);
either
1) either
1) resolve parenthesis
2) ands
3) ors
This calls for major = 'CI' and either of the other two criteria.
In the user interface, the CI would be on the criteria line and the or line.
I would then put >3 on the criteria line under gpa and > 30 on the or line under numCredits.
11:37 AM
2/22/2018


Query Tools
FirstDB : Database- E:\FirstDB.accdb (Access 2007 - 2016 file fo
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Create
External Data
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Design
Tell me what you want to do...
Sign in
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Show Table
Insert Rows
Delete Rows
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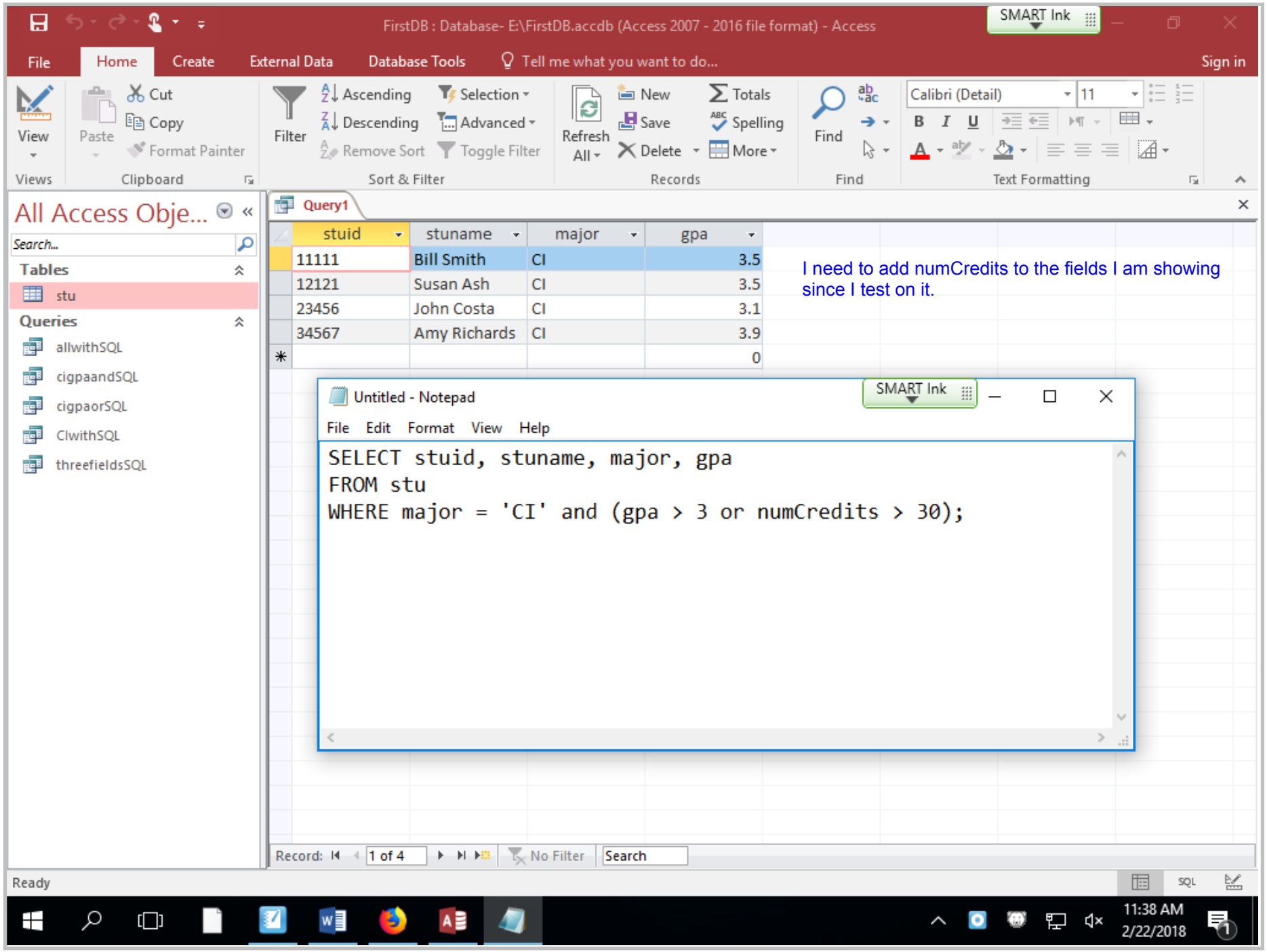
Insert Columns
Delete Columns
Return:
Totals
Parameters
Property Sheet
Table Names
Results
Query Type
Query Setup
Show/Hide
All Access Obje...
Search...
Tables
stu
Queries
allwithSQL
cigpaandSQL
cigpaorSQL
ClwithSQL
threefieldsSQL
Query1
SELECT stuid, stuname, major, gpa
FROM stu
WHERE major = 'CI' and (gpa > 3 or numCredits > 30);
Ready
SQL
11:37 AM
2/22/2018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Database Tools
Tell me what you want to do...
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All Access Obje...
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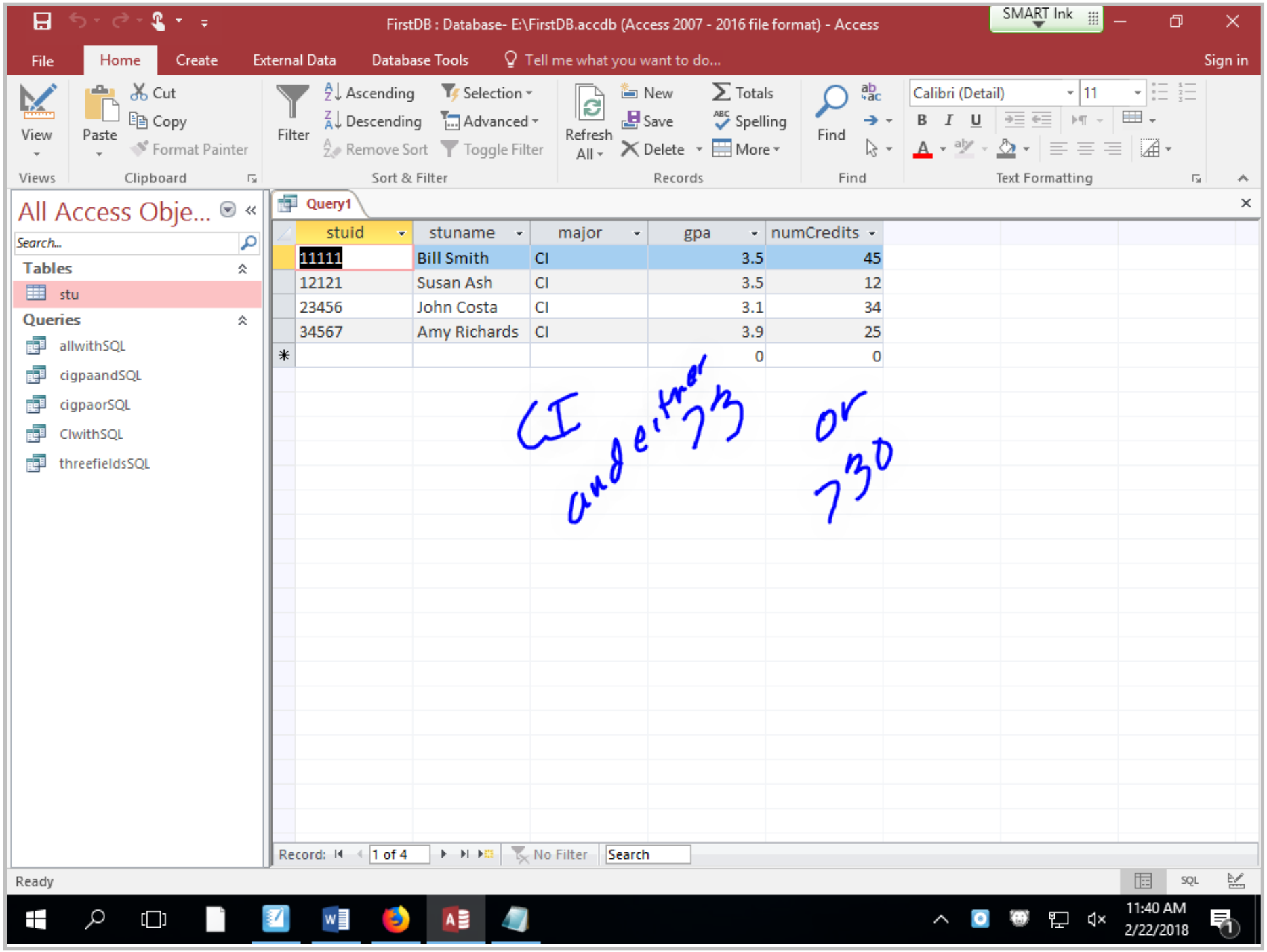
allwithSQL
cigpaandSQL
cigpaorSQL
ClwithSQL
threefieldsSQL
Query1
stuid
stuname
major
gpa
11111
Bill Smith
CI
3.5
12121
Susan Ash
CI
3.5
23456
John Costa
CI
3.1
34567
Amy Richards
CI
3.9
0
I need to add numCredits to the fields I am showing since I test on it.
Untitled - Notepad
SMART Ink
File Edit Format View Help
SELECT stuid, stuname, major, gpa
FROM stu
WHERE major = 'CI' and (gpa > 3 or numCredits > 30);
Record: 1 of 4
No Filter
Search
Ready
11:38 AM
2/22/2018


FirstDB : Database- E:\FirstDB.accdb (Access 2007 - 2016 file format) - Access
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Create
External Data
Database Tools
Tell me what you want to do...
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Records
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Text Formatting
All Access Obje...
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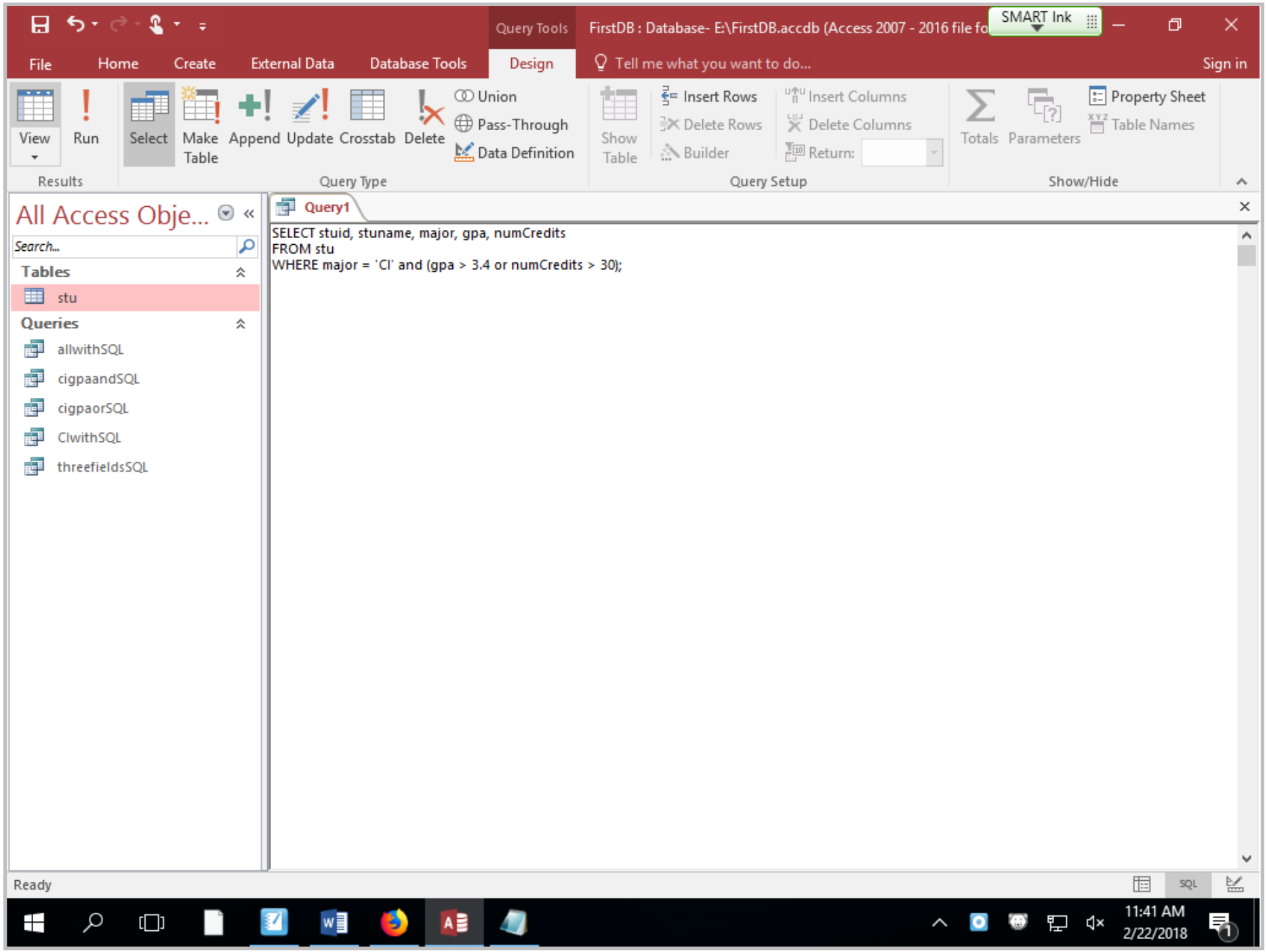
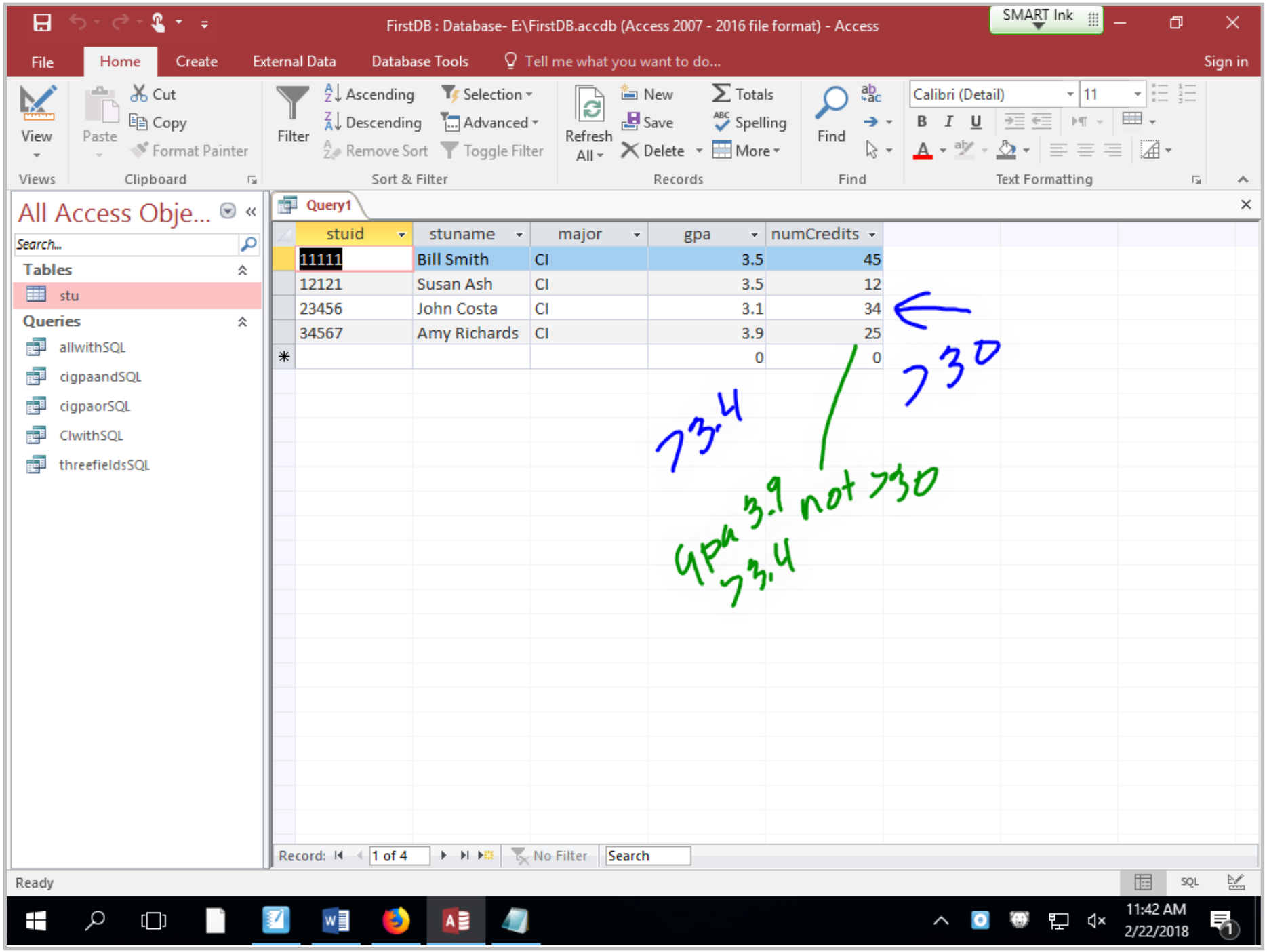
cigpaandSQL
cigpaorSQL
ClwithSQL
threefieldsSQL
Query1
stuid
stuname
major
gpa
numCredits
11111
Bill Smith
CI
3.5
45
12121
Susan Ash
CI
3.5
12
23456
John Costa
CI
3.1
34
34567
Amy Richards
CI
3.9
25
0
0
CI and either 73 or 730
Record: 1 of 4
No Filter
Search
Ready
11:40 AM
2/22/2018



Title: Feb 22-11:41 AM (27 of 39)


FirstDB : Database- E:\FirstDB.accdb (Access 2007 - 2016 file format) - Access
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Create
External Data
Database Tools
Tell me what you want to do...
Sign in
View
Paste
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Format Painter
Filter
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Toggle Filter
Refresh All
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Views
Clipboard
Sort & Filter
Records
Find
Text Formatting
All Access Obje...
Search...
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Queries
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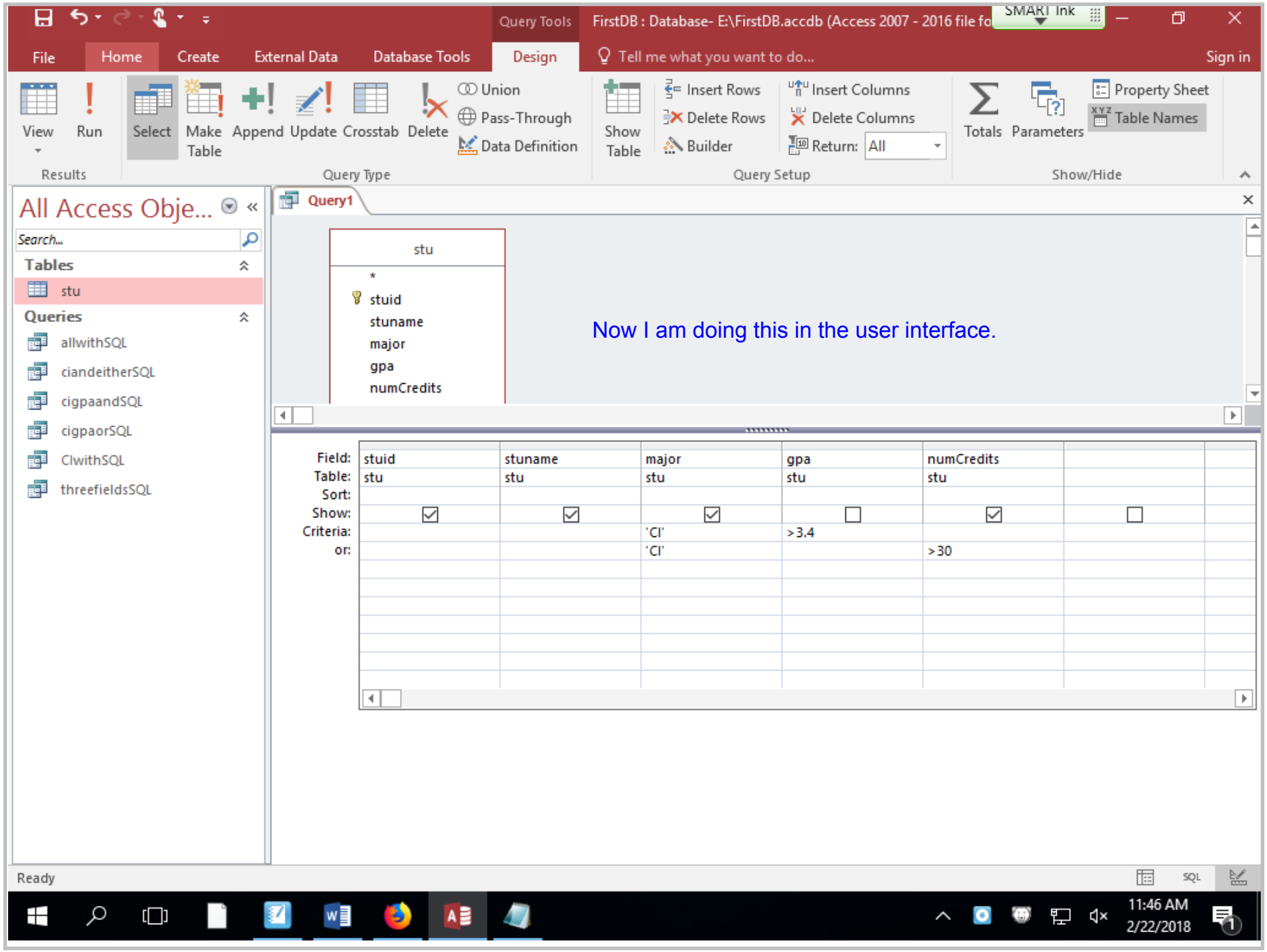
cigpaandSQL
cigpaorSQL
ClwithSQL
threefieldsSQL
Query1
stuid
stuname
major
gpa
numCredits
11111
Bill Smith
CI
3.5
45
12121
Susan Ash
CI
3.5
12
23456
John Costa
CI
3.1
34
34567
Amy Richards
CI
3.9
25
0
0
73.4
730
gpa 3.9 not >730
>3.4
Record: 1 of 4
No Filter
Search
Ready
SQL
11:42 AM
2/22/2018


Query Tools
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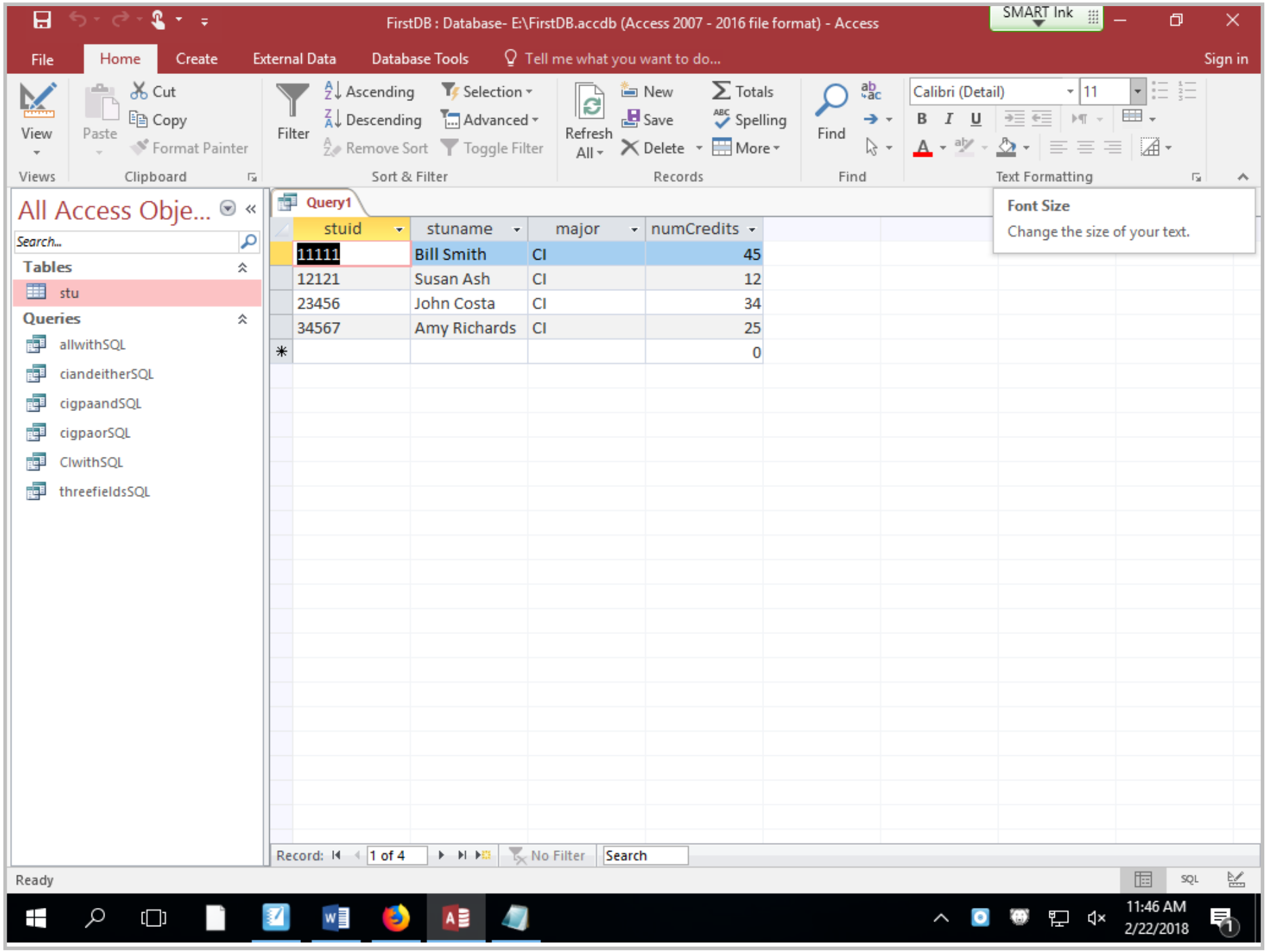
External Data
Database Tools
Design
Tell me what you want to do...
Sign in
View
Run
Select
Make Table
Append
Update
Crosstab
Delete
Union
Pass-Through
Data Definition
Show Table
Insert Rows
Delete Rows
Builder
Insert Columns
Delete Columns
Return: All
Totals
Parameters
Property Sheet
Table Names
Results
Query Type
Query Setup
Show/Hide
All Access Obje...
Search...
Tables
stu
Queries
allwithSQL
ciandeitherSQL
cigpaandSQL
cigpaorSQL
ClwithSQL
threefieldsSQL
Query1
stu
*
stuid
stuname
major
gpa
numCredits
Now I am doing this in the user interface.
Field:
Table:
Sort:
Show:
Criteria:
or:
stuid
stuname
major
gpa
numCredits
stu
'CI'
>3.4
>30
Ready
SQL
11:46 AM
2/22/2018



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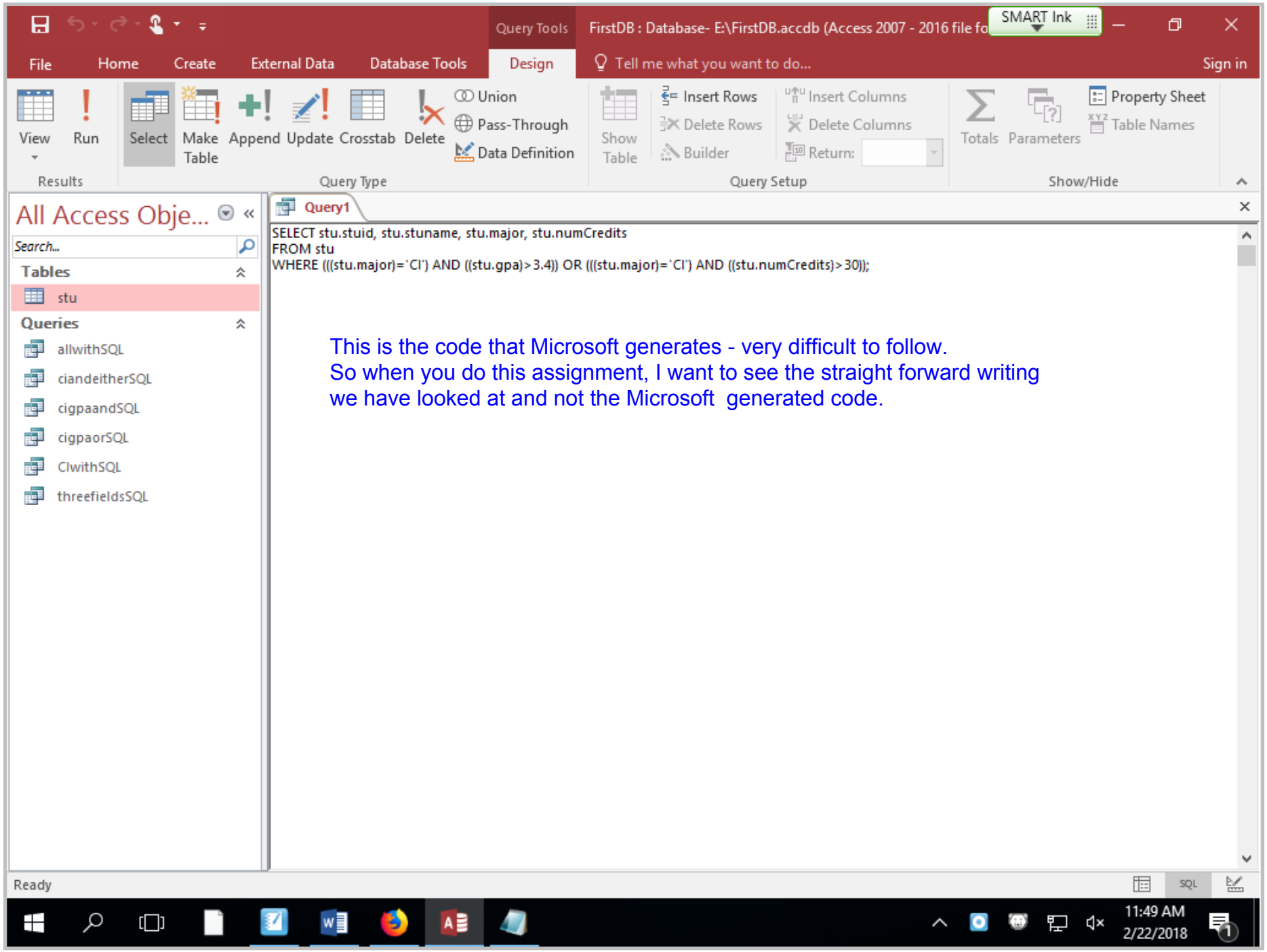
Query Tools
FirstDB : Database- E:\FirstDB.accdb (Access 2007 - 2016 file fo
SMART Ink
File
Home
Create
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Design
Tell me what you want to do...
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Delete
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Data Definition
Show Table
Insert Rows
Delete Rows
Builder
Insert Columns
Delete Columns
Return:
Totals
Parameters
Property Sheet
Table Names
Results
Query Type
Query Setup
Show/Hide
All Access Obje...
Search...
Tables
stu
Queries
allwithSQL
ciandeitherSQL
cigpaandSQL
cigpaorSQL
ClwithSQL
threefieldsSQL
Query1
SELECT stu.stuid, stu.stuname, stu.major, stu.numCredits
FROM stu
WHERE (((stu.major)='CI') AND ((stu.gpa)>3.4)) OR (((stu.major)='CI') AND ((stu.numCredits)>30));
This is the code that Microsoft generates - very difficult to follow.
So when you do this assignment, I want to see the straight forward writing
we have looked at and not the Microsoft generated code.
Ready
SQL
11:49 AM
2/22/2018

ifflowpseudo [Protected View] - PowerPoint

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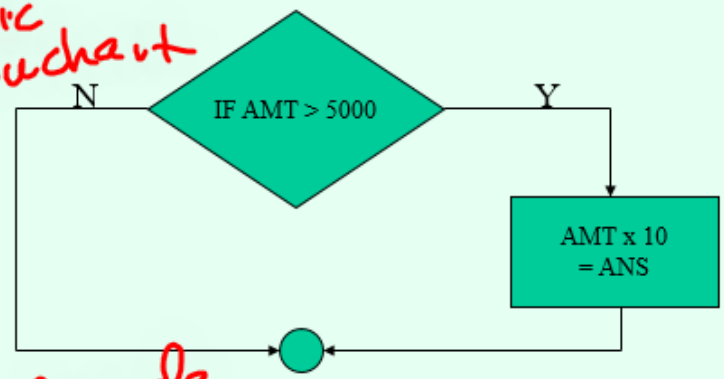
1 2 3 4 5 6 7

Simple IF - processing on Y only

logic flowchart



Please be sure to look at this entire presentation.

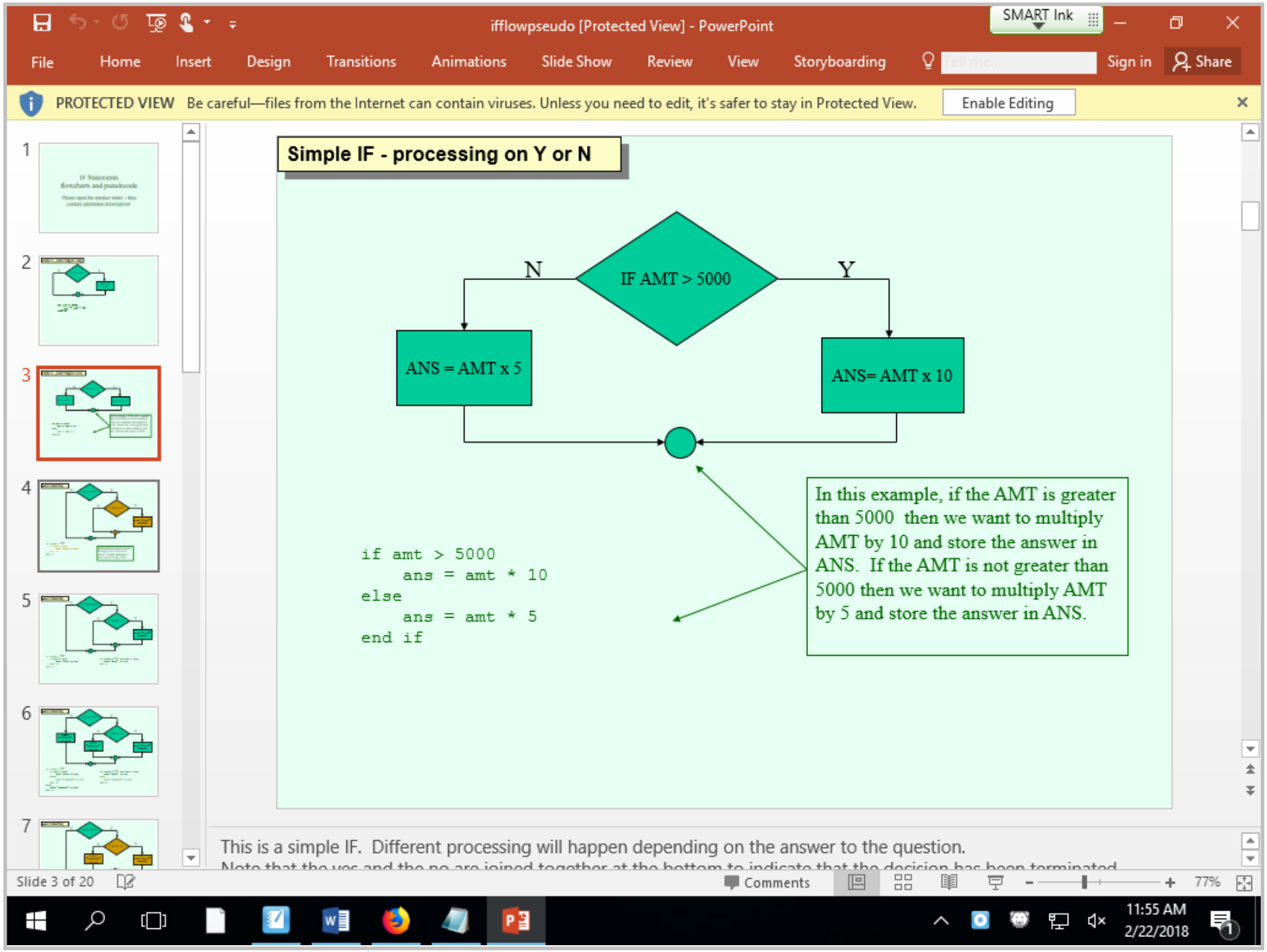
Pseudocode

```
if amt > 5000
    ans = amt * 10
end if
```

This is a simple IF. If the answer to the question is yes then processing is to be done. If the answer to the question is no then processing is not done.

Slide 2 of 20 Comments 77%

11:53 AM 2/22/2018



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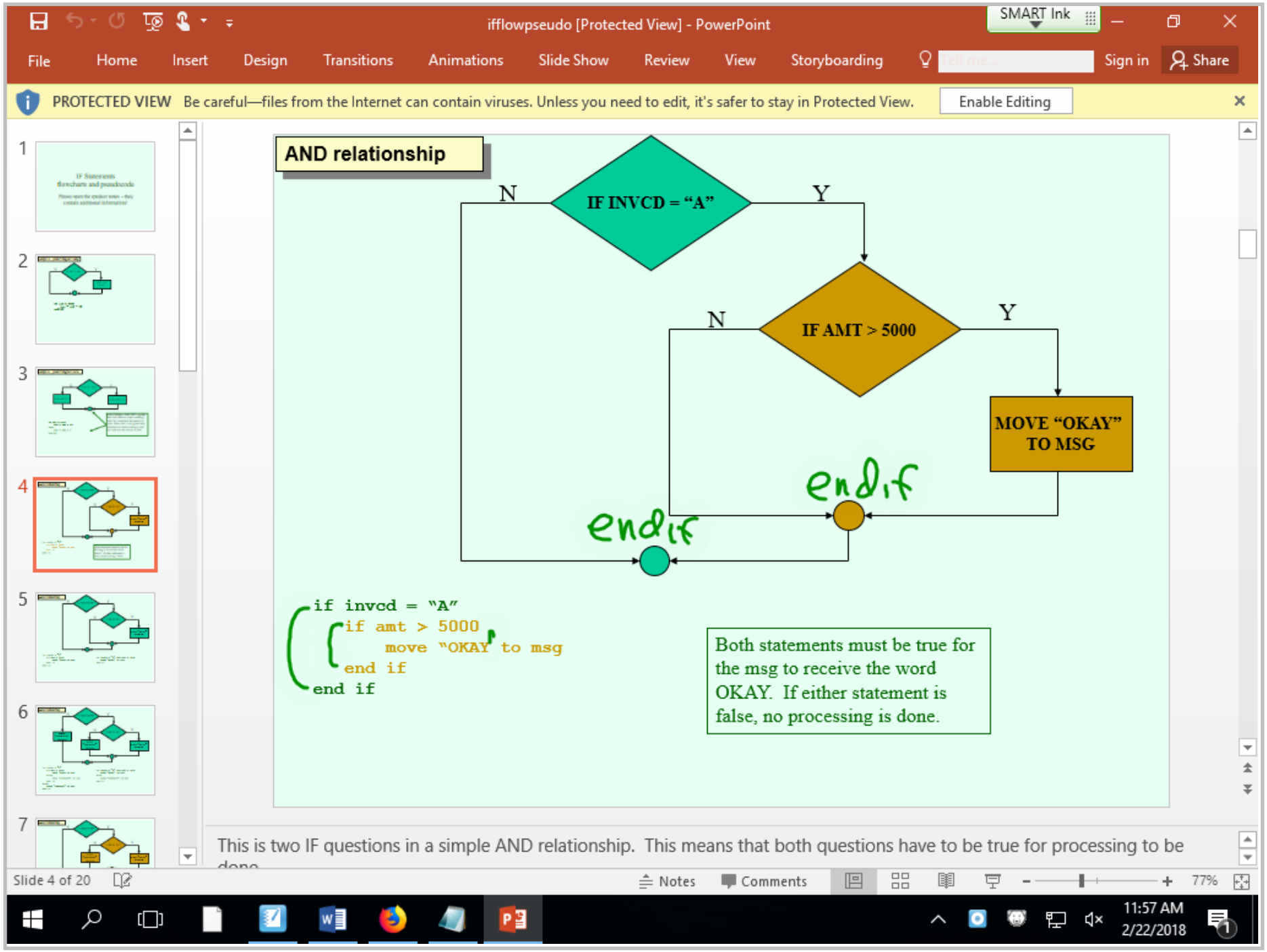

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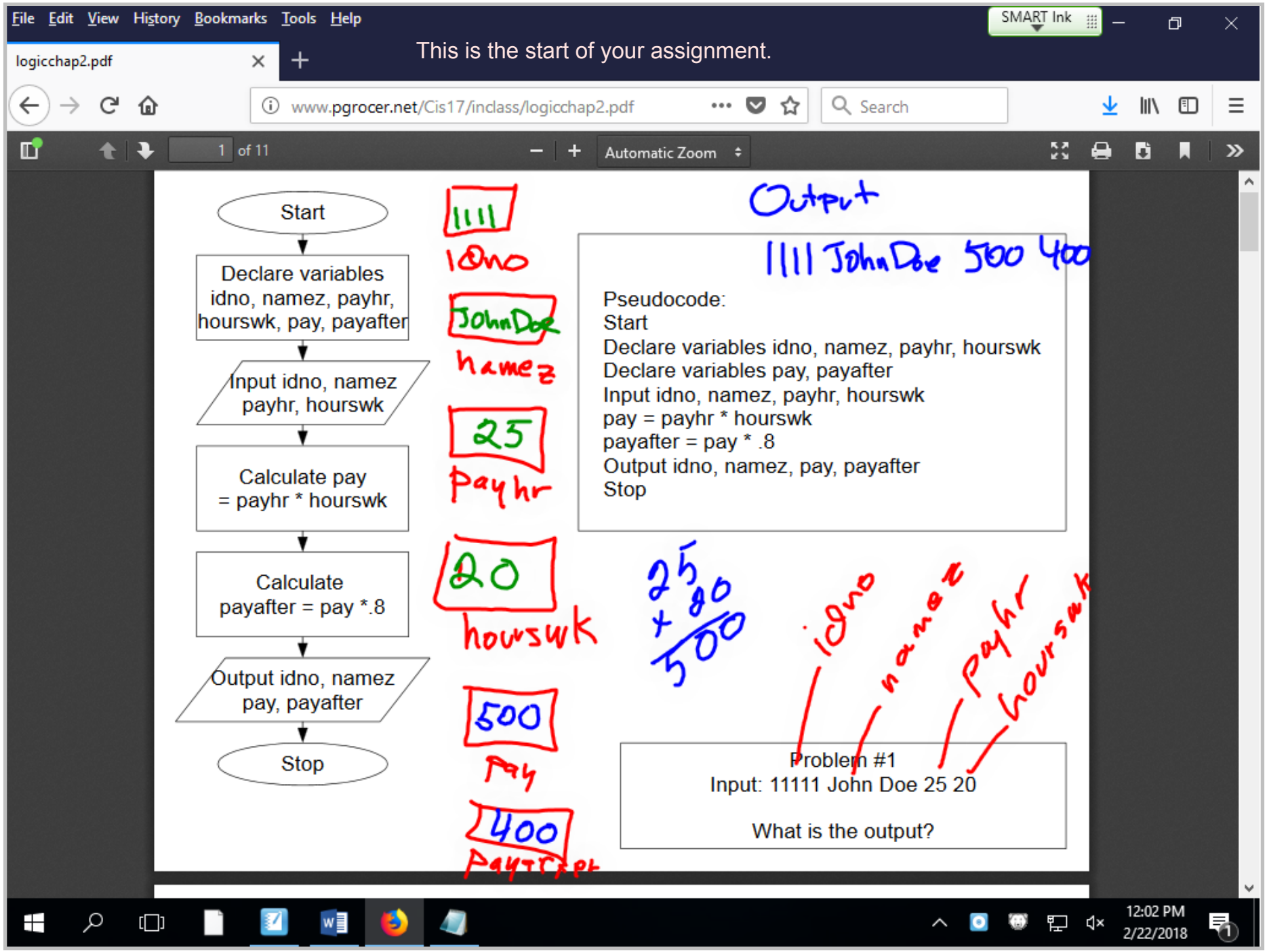
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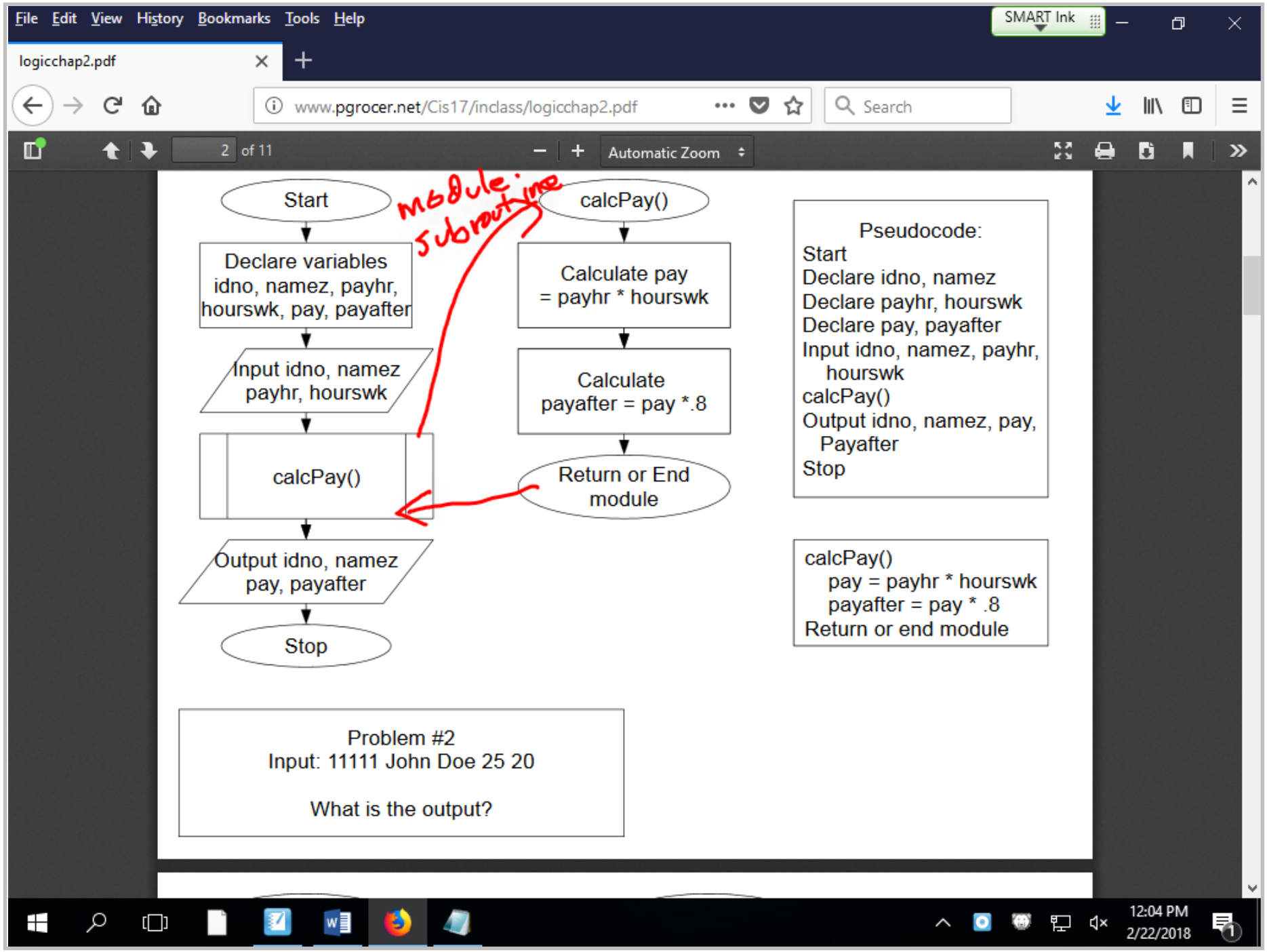
1 of 11
Automatic Zoom
Start
Declare variables idno, namez, payhr, hourswk, pay, payafter
Input idno, namez payhr, hourswk
Calculate pay = payhr * hourswk
Calculate payafter = pay *.8
Output idno, namez pay, payafter
Stop
1111
idno
JohnDoe
namez
25
payhr
20
hourswk
500
pay
400
payafter
Output
1111 JohnDoe 500 400
Pseudocode:
Start
Declare variables idno, namez, payhr, hourswk
Declare variables pay, payafter
Input idno, namez, payhr, hourswk
pay = payhr * hourswk
payafter = pay * .8
Output idno, namez, pay, payafter
Stop
25
x 20
500
idno
namez
payhr
hourswk
Problem #1
Input: 11111 John Doe 25 20
What is the output?
12:02 PM
2/22/2018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logicchap2.pdf
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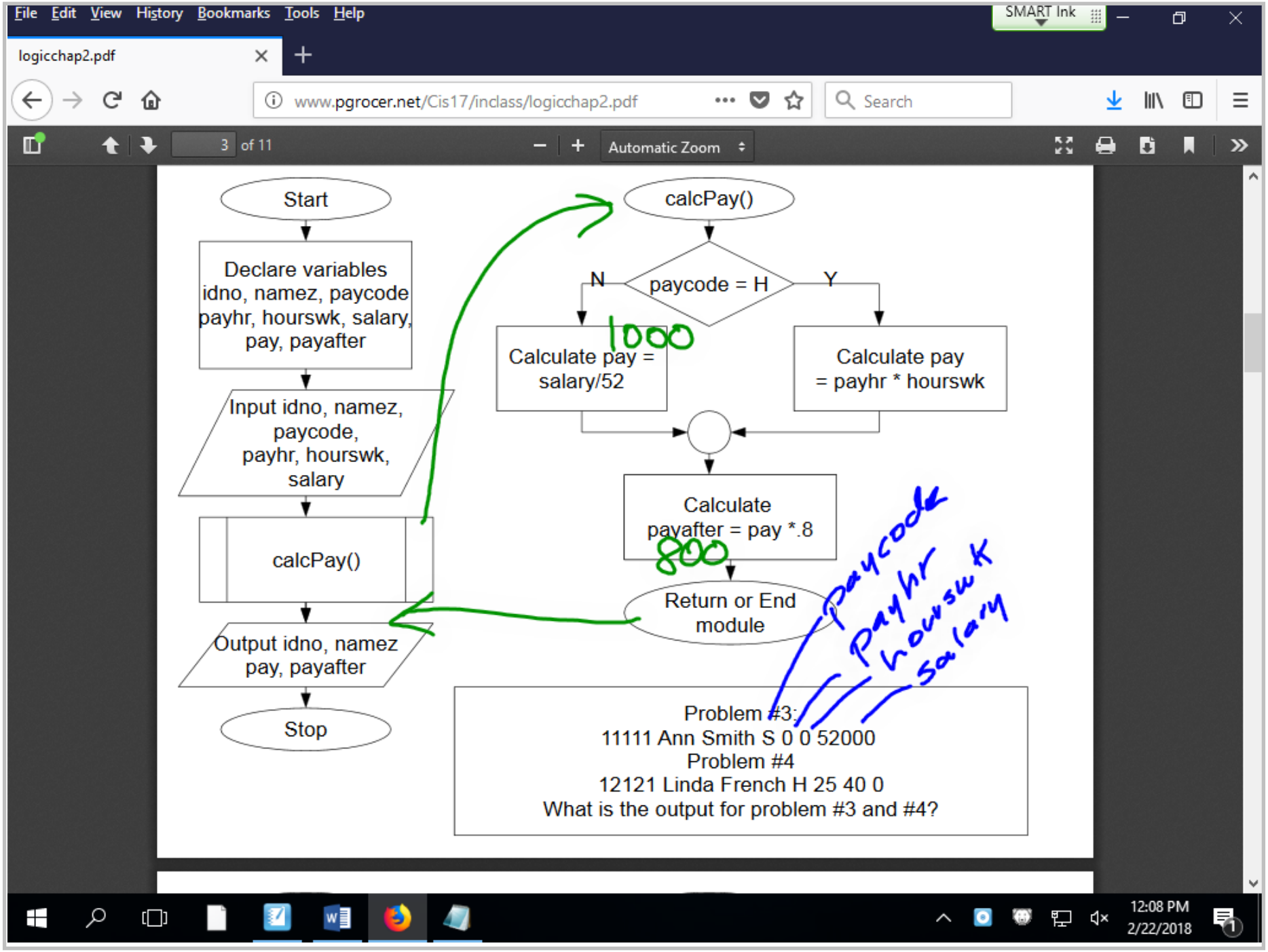
Search
2 of 11
Automatic Zoom
Start
Declare variables idno, namez, payhr, hourswk, pay, payafter
Input idno, namez payhr, hourswk
calcPay()
Output idno, namez pay, payafter
Stop
module
subroutine
calcPay()
Calculate pay = payhr * hourswk
Calculate payafter = pay *.8
Return or End module
Pseudocode:
Start
Declare idno, namez
Declare payhr, hourswk
Declare pay, payafter
Input idno, namez, payhr, hourswk
calcPay()
Output idno, namez, pay, Payafter
Stop
calcPay()
pay = payhr * hourswk
payafter = pay * .8
Return or end module
Problem #2
Input: 11111 John Doe 25 20
What is the output?
12:04 PM
2/22/2018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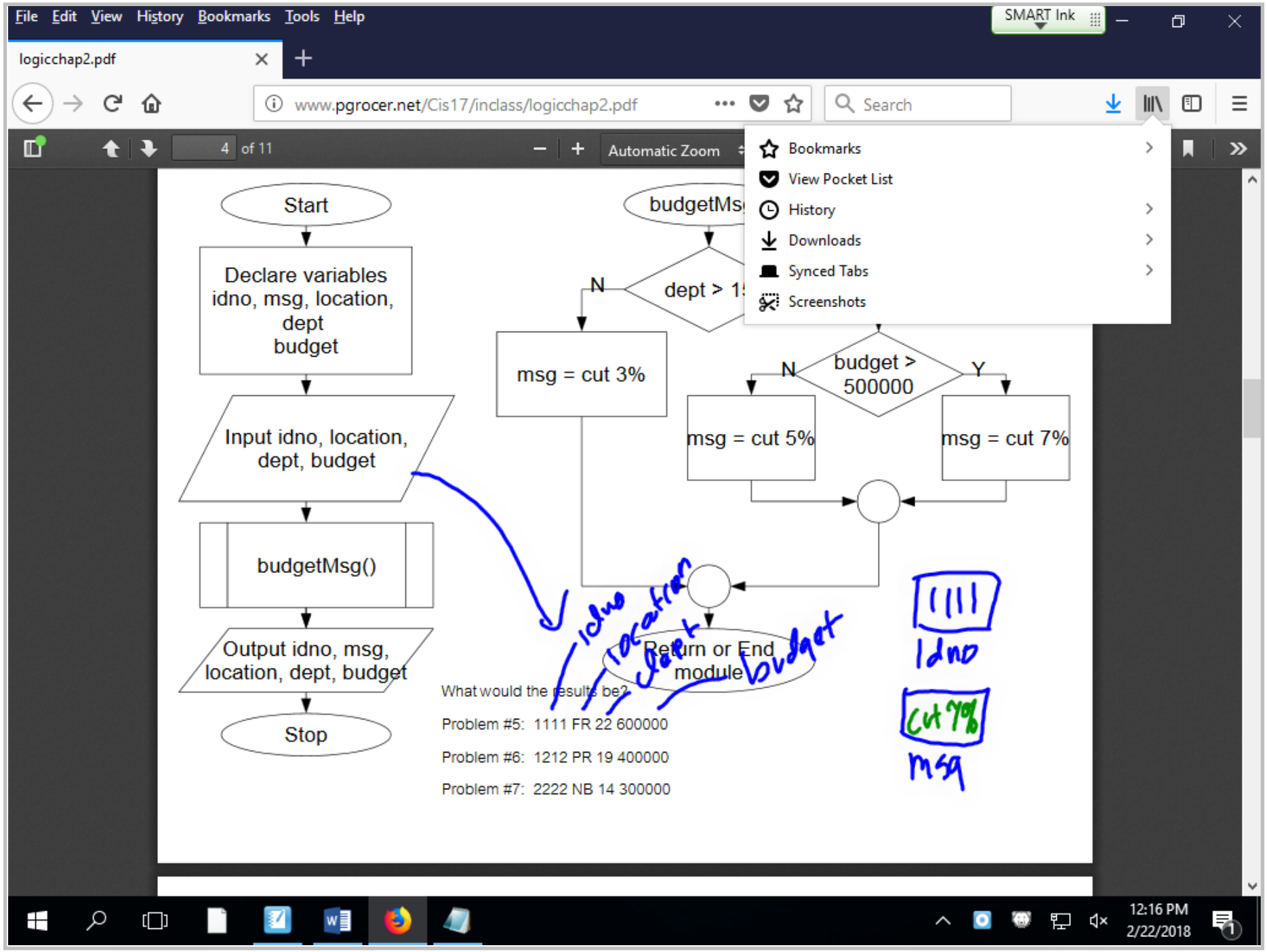
Search
3 of 11
Automatic Zoom
Start
Declare variables
idno, namez, paycode
payhr, hourswk, salary,
pay, payafter
Input idno, namez,
paycode,
payhr, hourswk,
salary
calcPay()
Output idno, namez
pay, payafter
Stop
calcPay()
paycode = H
N
Y
Calculate pay =
salary/52
Calculate pay
= payhr * hourswk
Calculate
payafter = pay *.8
Return or End
module
1000
800
Paycode
Payhr
hourswk
Salary
Problem #3:
11111 Ann Smith S 0 0 52000
Problem #4
12121 Linda French H 25 40 0
What is the output for problem #3 and #4?
12:08 PM
2/22/2018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Search
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Automatic Zoom
Bookmarks
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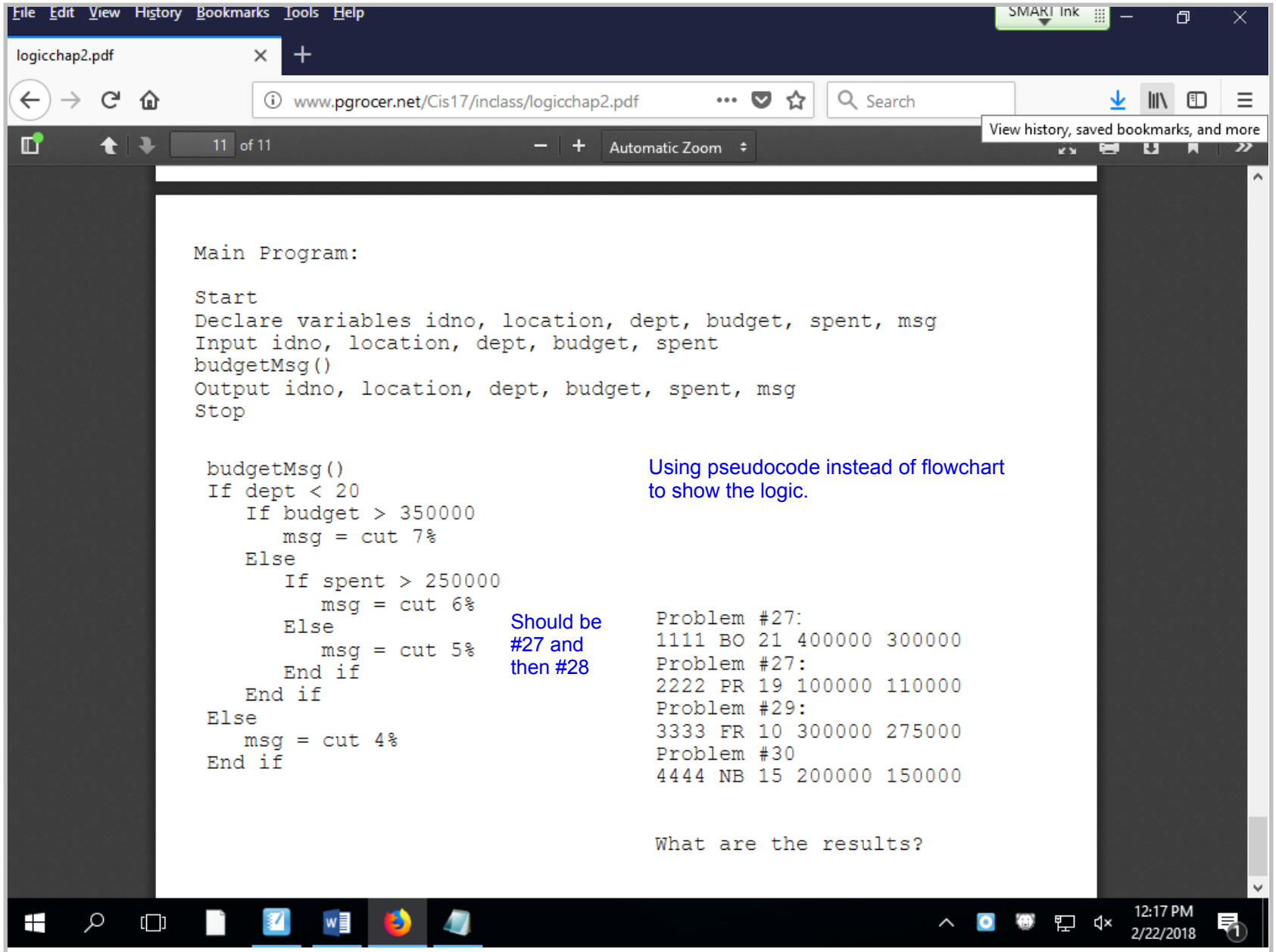
Screenshots
Start
Declare variables idno, msg, location, dept budget
Input idno, location, dept, budget
budgetMsg()
Output idno, msg, location, dept, budget
Stop
budgetMs
dept > 1
N
msg = cut 3%
budget > 500000
N
Y
msg = cut 5%
msg = cut 7%
Return or End module
What would the results be?
Problem #5: 1111 FR 22 600000
Problem #6: 1212 PR 19 400000
Problem #7: 2222 NB 14 300000
idno
location
dept
budget
1111
idno
cut 7%
msg
12:16 PM
2/22/2018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Search
View history, saved bookmarks, and more
11 of 11
Automatic Zoom
Main Program:
Start
Declare variables idno, location, dept, budget, spent, msg
Input idno, location, dept, budget, spent
budgetMsg()
Output idno, location, dept, budget, spent, msg
Stop
budgetMsg()
If dept < 20
If budget > 350000
msg = cut 7%
Else
If spent > 250000
msg = cut 6%
Else
msg = cut 5%
End if
End if
Else
msg = cut 4%
End if
Using pseudocode instead of flowchart to show the logic.
Should be #27 and then #28
Problem #27:
1111 BO 21 400000 300000
Problem #27:
2222 PR 19 100000 110000
Problem #29:
3333 FR 10 300000 275000
Problem #30
4444 NB 15 200000 150000
What are the results?
12:17 PM
2/22/2018