Week 7 - Lab 2: Crosstab queries and Custom Calculations



CPSC 203 - T16

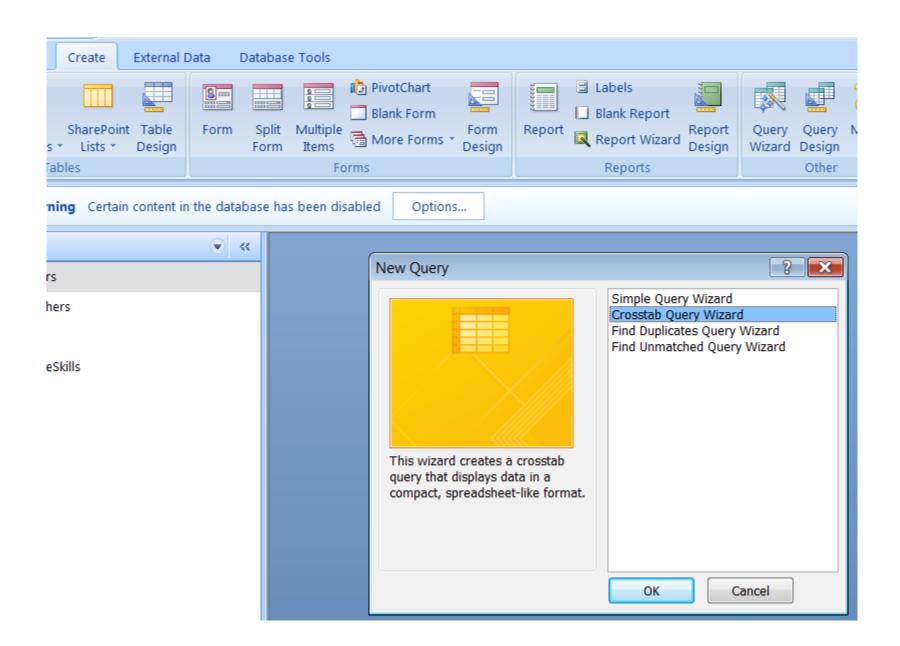
Winter 2009

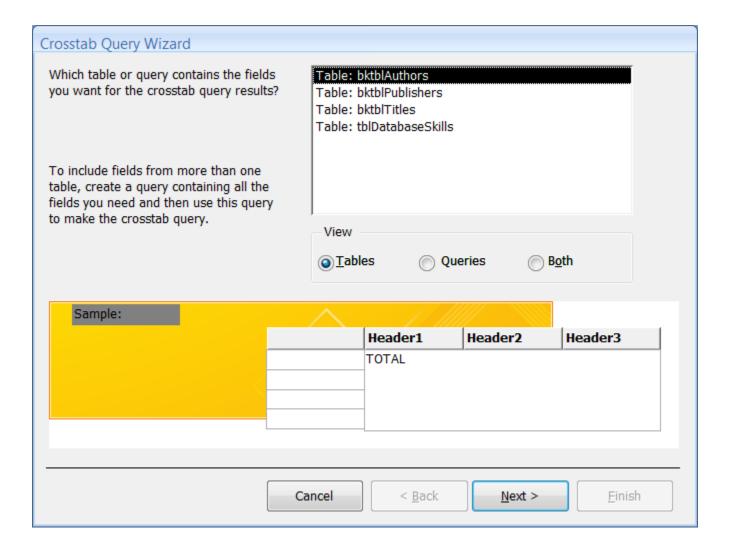


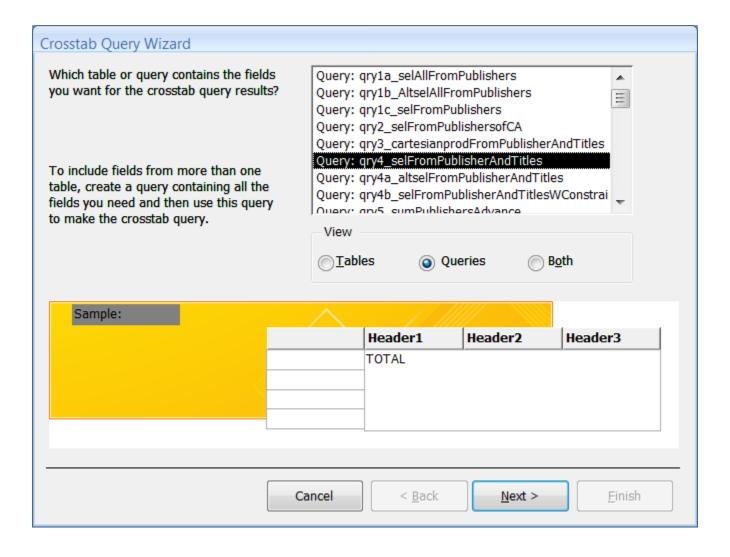
Overview

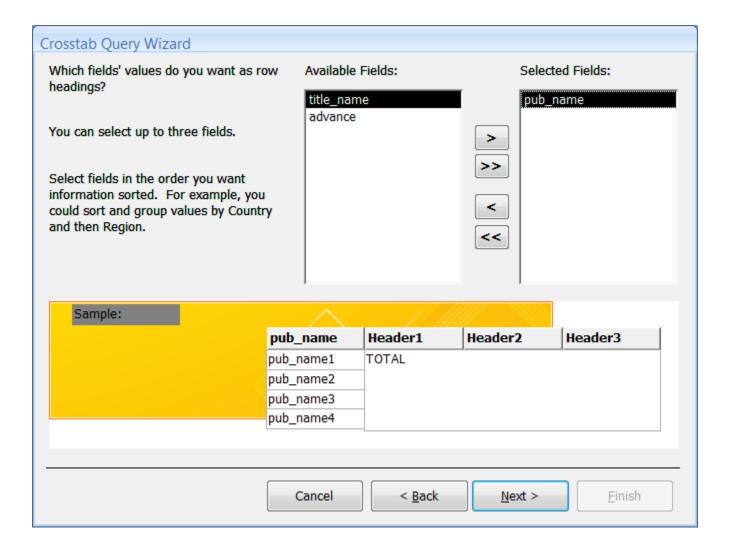
- In this tutorial, we will learn how to create:
 - Crosstab Queries
 - Custom Calculations

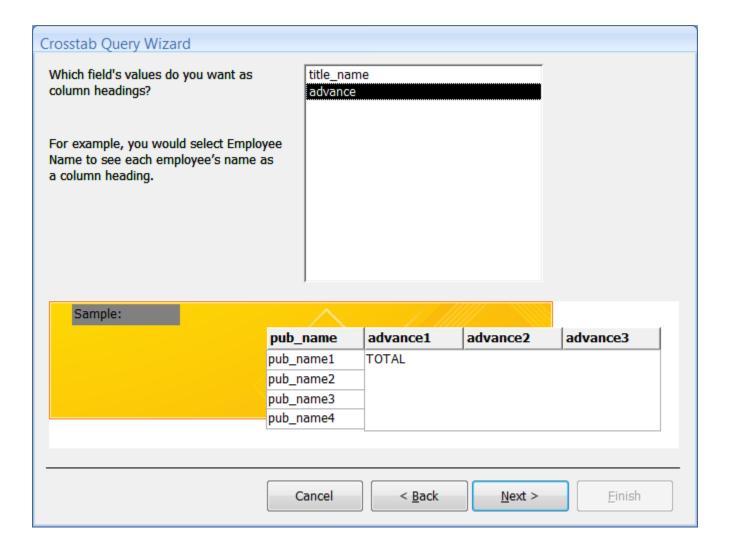
 These are queries that display information in a compact spreadsheet-like format

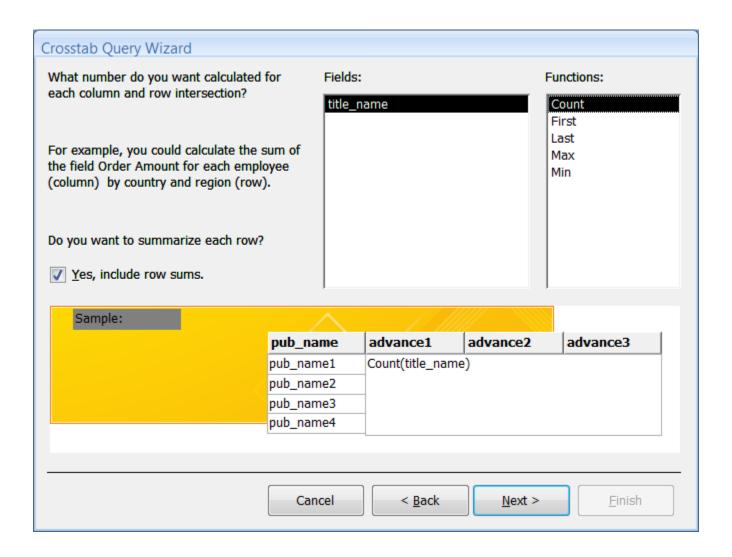


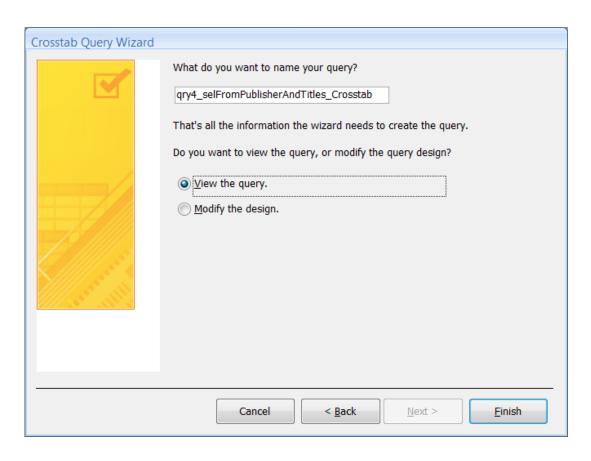












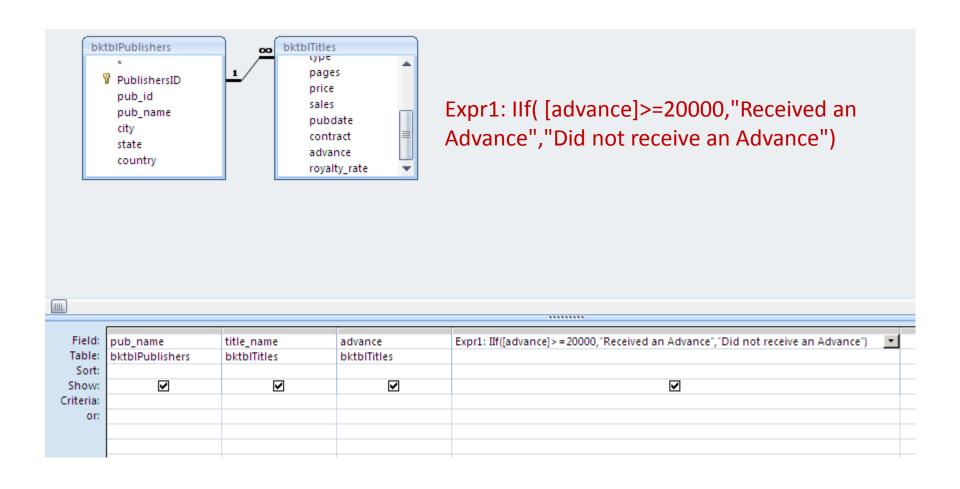
pub_name	Total Of title	<>	0	1000	10000	15000	20000	50000	100000	1000000
Abatis Publisher	9	1	2		1		2	1	2	
Core Dump Boo	1					1				
Schadenfreude	3			1			1			

Custom Calculations

 In queries, we would like to add fields representing some calculations which are based on the original query fields.

We can use IF statements and arithmetic calculations.

IF Statement



IF Statement

pub_name 🔻	title_name ▼	advance 🕶	Expr1 →
Abatis Publishe	1977!	10000	Did not receive an Advance
Abatis Publishe	But I Did It Unconsciously	20000	Received an Advance
Abatis Publishe	Exchange of Platitudes	100000	Received an Advance
Abatis Publishe	How About Never?	20000	Received an Advance
Abatis Publishe	Just Wait Until After School	0	Did not receive an Advance
Abatis Publishe	Kiss My Boo-Boo	0	Did not receive an Advance
Abatis Publishe	Not Without My Faberge Egg		Did not receive an Advance
Abatis Publishe	Perhaps It's a Glandular Problem	100000	Received an Advance
Abatis Publishe	Spontaneous, Not Annoying	50000	Received an Advance
Core Dump Boo	Ask Your System Administrator	15000	Did not receive an Advance
Schadenfreude	200 Years of German Humor	1000	Did not receive an Advance
Schadenfreude	I Blame My Mother	1000000	Received an Advance
Schadenfreude	What Are The Civilian Applications	20000	Received an Advance

Nested IF Statement

 Handling more possible categories. For example, we want to represent this logic:

```
IF (less than or equal to 10000)

print "Low Advance Payout"

ELSE IF (less than 20000)

print "Middle Advance Payout"

ELSE IF (greater than or equal to 20000)

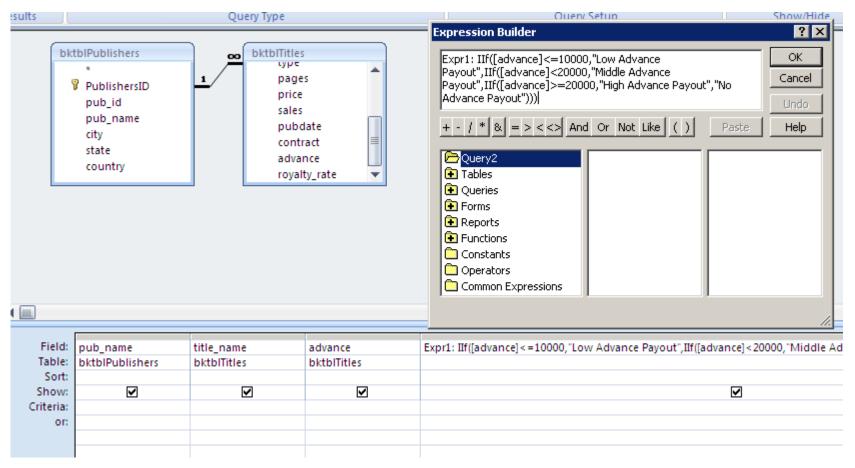
print "High Advance Payout"

ELSE

print "No Advance Payout"
```

Nested IF Statement

Advance: IIf([advance]<=10000,"Low Advance
Payout",IIf([advance]>=20000,"Middle Advance Payout",IIf([advance]>=20000,"High
Advance Payout","No Advance Payout")))



Nested IF Statement

4	pub_name 🔻	title_name →	advance 🕶	Expr1 →
	Abatis Publishe	1977!	10000	Low Advance Payout
	Abatis Publishe	But I Did It Unconsciously	20000	High Advance Payout
	Abatis Publishe	Exchange of Platitudes	100000	High Advance Payout
	Abatis Publishe	How About Never?	20000	High Advance Payout
	Abatis Publishe	Just Wait Until After School	0	Low Advance Payout
	Abatis Publishe	Kiss My Boo-Boo	0	Low Advance Payout
	Abatis Publishe	Not Without My Faberge Egg		No Advance Payout
	Abatis Publishe	Perhaps It's a Glandular Problem	100000	High Advance Payout
	Abatis Publishe	Spontaneous, Not Annoying	50000	High Advance Payout
	Core Dump Boo	Ask Your System Administrator	15000	Middle Advance Payout
	Schadenfreude	200 Years of German Humor	1000	Low Advance Payout
	Schadenfreude	I Blame My Mother	1000000	High Advance Payout
	Schadenfreude	What Are The Civilian Applications	20000	High Advance Payout
*				