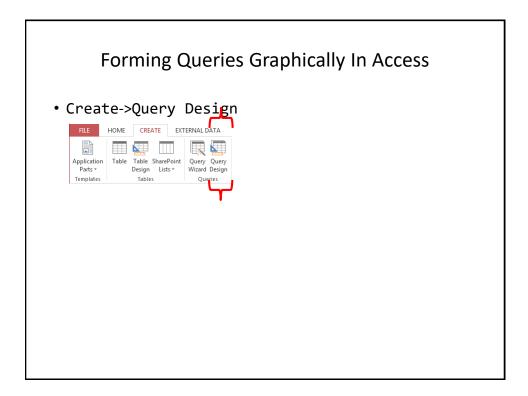
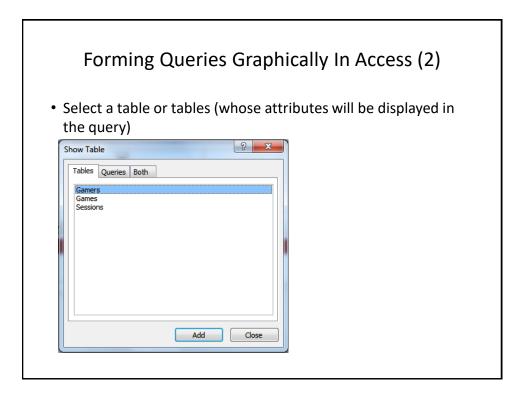
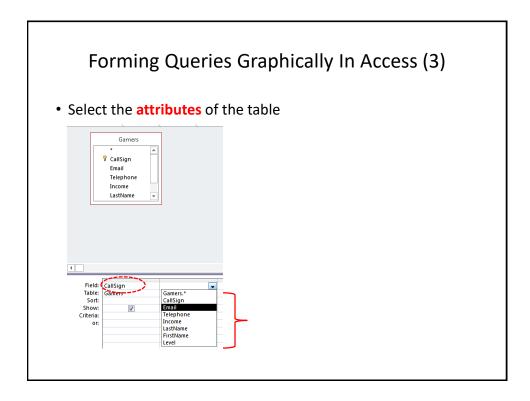


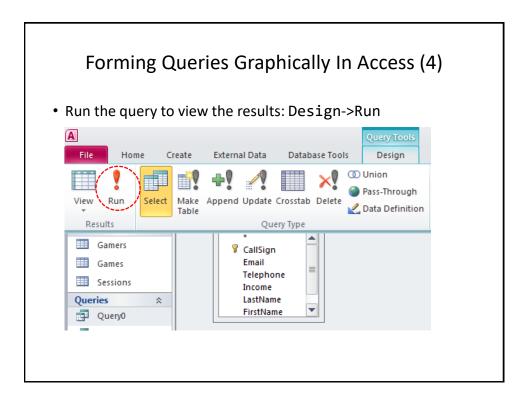


			etriev	ing Dat	a Via Qu	ieries		
•	Data re	etrieval	occurs t	hrough th	ne use of 'q	ueries':		
				0			the detab	
	– AS M	entioned:	A query	is a questio	on asked of th	e uata m	ine uatat	lase.
	– May	be worde	d to shov	v only the p	oarts of the da	atabase fo	r which t	he
					it be worded			
			· .			to just she		iues of
	the a	ttributes	specified	in the quer	ry			
	– Exam	nle Wha	t is the C	allSign F	-irstName	lastNam	and I ev	velof
				•	irstName,	LastNam	e and Lev	velof
		ple: Whaters in the o		•	irstName,	LastNam	e and Lev	velof
	game	ers in the (Gamers	Table:			e and Lev	velof
	game	ers in the (Gamers	Table:	⁻irstName, ess specific		e and Lev	vel of
	game y (this	ers in the (Gamers T al form i	Table:		:)		
Quer	game	ers in the o	Gamers	Table:	ess specific	:)	e and Lev	
Quer Field: Table: Sort:	game y (this ^{CallSign} _{Gamers}	graphic	Gamers	Table:	ess specific	:)	ult of th	
Field: Table: Sort: Show:	game y (this _{CallSign}	graphic FirstName	Gamers 7 al form 1 LESELNARME	Table:	CallSign	;) Res	LastName -	e quer
Field: Table: Sort: Show: Criteria:	game y (this ^{CallSign} _{Gamers}	graphic	Gamers	Table:	ess specific	:) Res	ult of th	Level
Field: Table: Sort: Show:	game y (this ^{CallSign} _{Gamers}	graphic	Gamers	Table:	CallSign a123 Aamazing	;) Res	LastName -	e quer
Field: Table: Sort: Show: Criteria:	game y (this ^{CallSign} _{Gamers}	graphic	Gamers	Table:	CallSign a123 Az	FirstName •	LastName - Carswell	Level
Field: Table: Sort: Show: Criteria:	game y (this ^{CallSign} _{Gamers}	graphic	Gamers	Table:	CallSign a123 Aamazing Az Cowboy	 Res FirstName Mary Tough 	LastName - Carswell Texan	Level
Field: Table: Sort: Show: Criteria:	game y (this ^{CallSign} _{Gamers}	graphic	Gamers	Table:	ess specific al23 Aamazing Az Cowboy FooS	FirstName - Mary Tough Maureen	Carswell Texan Edgar	Level
Field: Table: Sort: Show: Criteria:	game y (this ^{CallSign} _{Gamers}	graphic	Gamers	Table:	CallSign a123 Aamazing Az Cowboy	FirstName - Mary Tough Maureen	LastName - Carswell Texan	Level

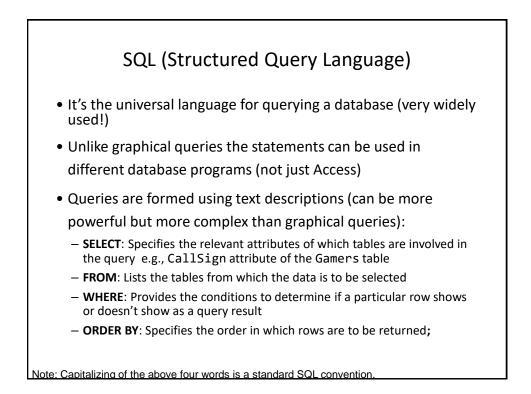


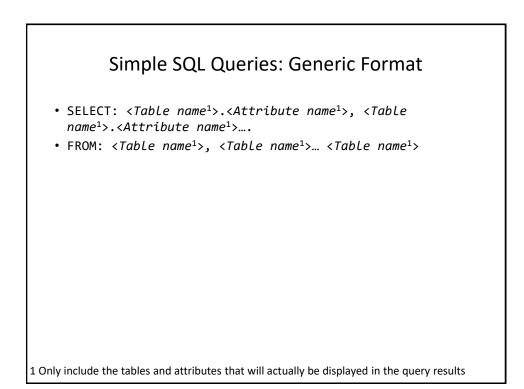


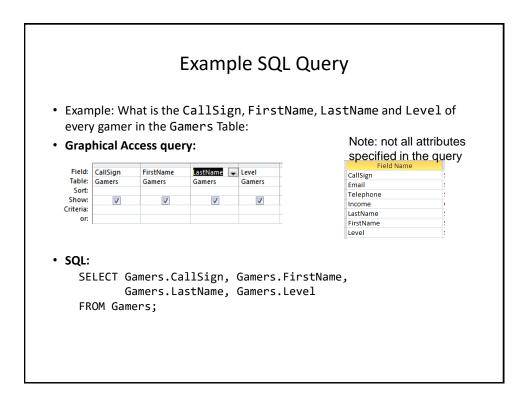




•	Luely H	Γ:	Sp	ecu	tying	g Que	ry Crit	teria		
Vhat is th	ne CallSig	7n 8	ሪ Fma	i18	and F	irstNa	me Last	Name c	of all	
		-				IT S cita	iic, Lusic	nume e	/i un	
amers w	ith the last	nan	ne or	Iam	ſ					
CallSign	Email •	Tele	ohone 👻	Inc	ome 👻	LastName 🔻	FirstName -	Level		
a1					\$0.00					
a123	foo@bar.ca			\$12 <u>,</u>	000,000.00	Carswell	Mary	L9		
Aamazing					\$0.00			L01		
Az	a@b.com				\$0.00					
Cowboy	countryboi@hot	(111)1	11-1111	Ş	123,000.00	Texan	Tough	L99		
FooS					\$42,500.00	Edgar	Maureen	L1		
Freeloader	cheap@skate.or				\$0.00	You gotta be	kidding me!	L13		
Maverick	rebel@yell.ca	(222)3	33-4444		\$75,000.00	Maverick	John	L77		
ResEv1					\$35,000.00	Keddney	Leon	L14		
ResEv2					\$42,000.00	Redfeld	Claire	L15		
s1s77S					\$0.00	Jones	Mary	L25		
SilentHL	heather@morris	(403)2	10-9455		\$6,500.00	Maurice	Heather	L17		
SilentMtn	harry@mason.cc	(403)2	10-9455		\$55,000.00	Masoon	Harri	L43		
Slayer	tam_yeah_right((123)4	56-7890	Ş	100,000.00	Tam	James	L88 }		
SMiLey	1@1.com	(222)2	22-3333		\$1.00	Wang	Tam	L07		
Tamman	tama@aol.com				\$55,000.00	Tam	Tam	L12		
Tomstone	gm ail@gmail.co	(403)1	11-2222		\$75,000.00	Torrie	Donald	L02		
zzonbur	1@*.com	/100\1	11 1111		ćn nn					







CPSC 203: What You Need To Know About Forming Queries

 You need to know how to form and evaluate/trace queries (determine what will appear when the query is run) graphically ("Query Design") or using SQL for both the assignment and for the examination component.

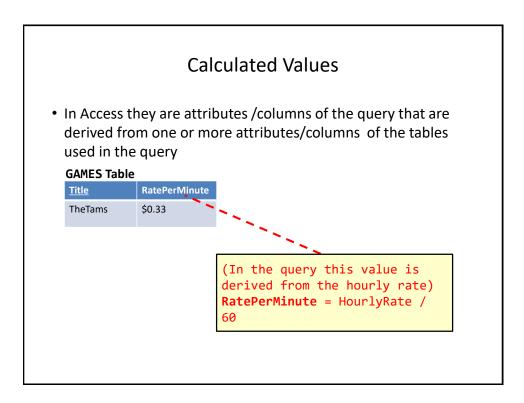
Query #1B: Using An Attribute In Query Condition But Not Displayed As A Result

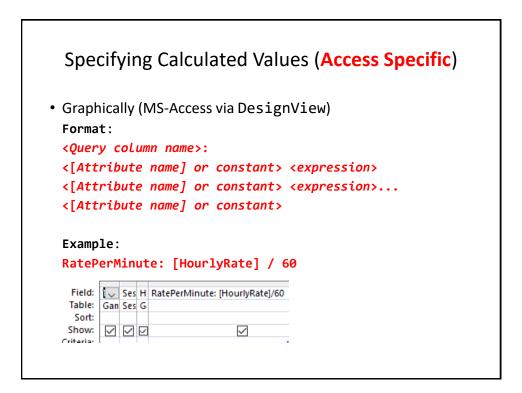
- Previous Example:
 - What is the CallSign & Email & and FirstName, LastName of all gamers with last name of Tam?

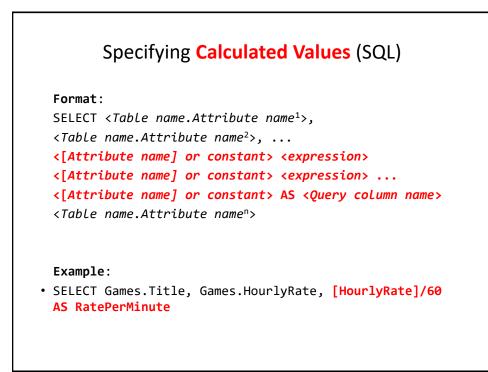
CallSign	Ŧ	Email 👻	FirstName 🔻	LastName 🔻
Slayer		tam_yeah_right@hotmail.com	James	Tam
Tamman		tama@aol.com	Tam	Tam

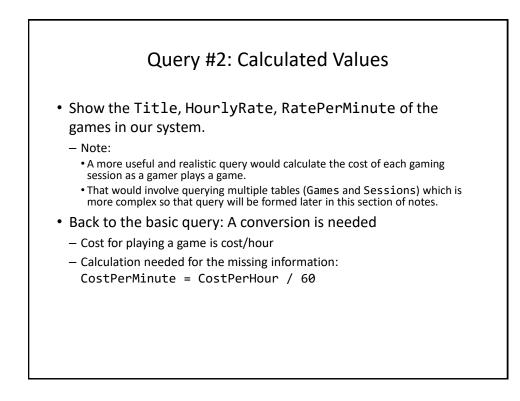
 I know all gamers displayed in the results will have 'Tam' for a last name (why display obvious information)

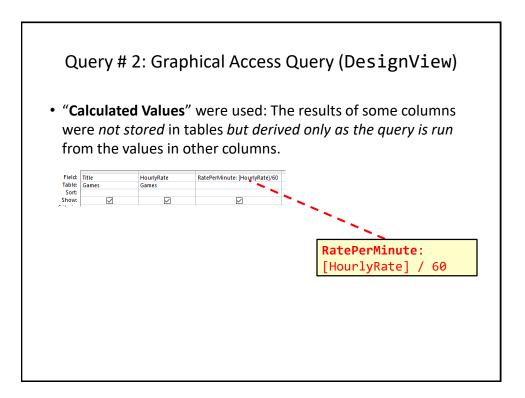
Field:	CallSign	Email	FirstName	LastName		
Table:	Gamers	Gamers	Gamers	Gamers		
Sort:				275		
Show:	\checkmark	\checkmark	\checkmark			
Criteria:				"Tam"		
			CallSign 👻	Emai		FirstName
			Slayer	tam_yeah_right@	hotmail.com	James
			Tamman	tama@aol.com		Tam
						1

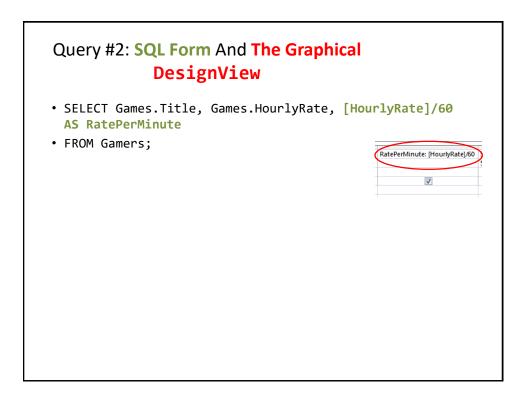






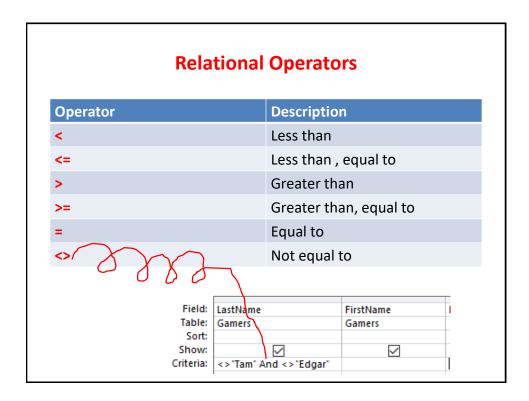


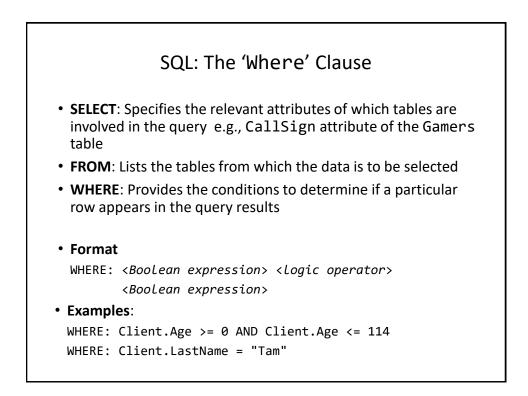




Access: Cleaning Up The Results	
 Select the attribute RatePerMinute: [Hour] Ribbon: Select the design tab, Select the property sheet option 	
	RatePerMinute •
Image: Show bound boun	\$0.12 \$0.12 \$0.12 \$0.12 \$0.12 \$0.12
Property Sheet × Selection type: Field Properties General Lookup Description Format Currency Decimal Places 2 Input Mask Caption	\$0.12 \$0.12 \$0.12 \$0.12 \$0.12 \$0.12 \$0.12 \$0.12 \$0.17 \$0.33

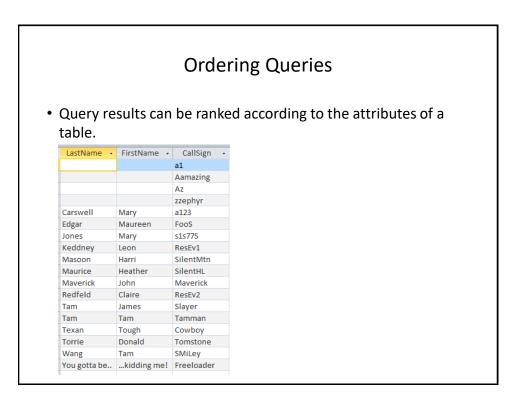
Operation	Description	MS-Access operator
AND	 All conditions must be true for the result to be true. If any condition is false then the entire result is false. 	And
OR	 All conditions must be false for the result to be false. If any condition is true then the entire result is true. 	Or

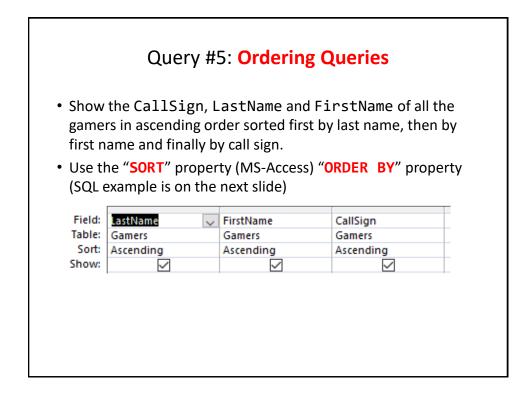


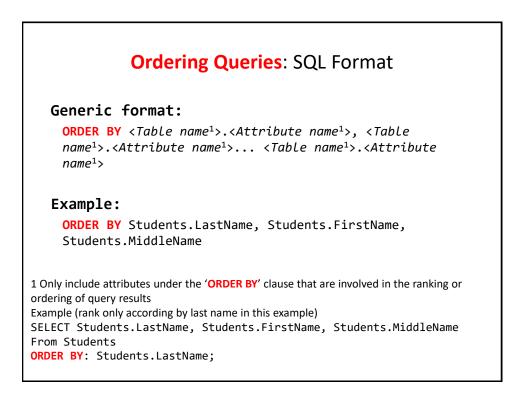


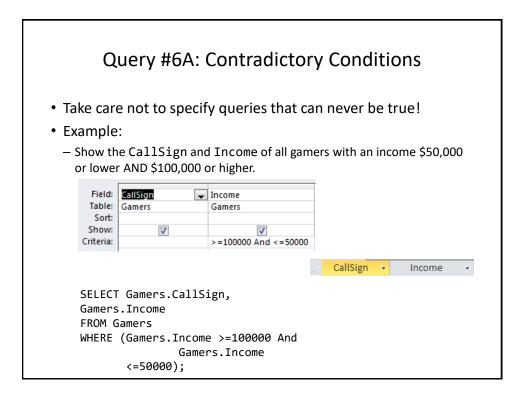
	Q	uery #	3: Logical-	OR
	-		Name & Firs e is "Maurice"	tName of all ' or "Masoon".
CallSign		Name 🕞	FirstName 👻	
SilentMtn	Maso	on	Harri	
SilentHL	Maur		Heather	a column will have the
	uery cri	teria spe	cified within	a column will have the
Note that q logical OR d	uery cri	teria spe	cified within	<i>a column</i> will have the

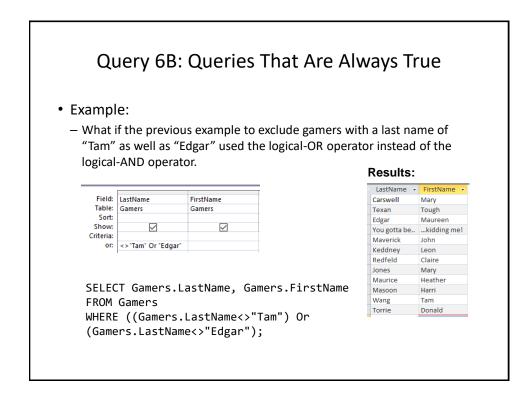
	Que	ry #4: Log	gica	I-AN	١D				
		ons of the ga our or more.		title "	DOOM	1ED"	whic	ch had	
Title	 SessionDur 								
DOOMED	CESSIOND	60							
DOOMED		1200							
DOOMED		300							
DOOMED		360							
DOOMED		12000							
		ria specified ration applie				nns	will h	ıave	
Field: Title		SessionDuration							
Table: Sessi	ons	Sessions							
Sort: Show:									
	IFRY CRITERIA>"		۵>"						
Iriteria: [" <ql< td=""><td>JERY CRITERIA>"</td><td>~QUERY CRITERI</td><td>A>"</td><th></th><td></td><th></th><th></th><th></th><td></td></ql<>	JERY CRITERIA>"	~QUERY CRITERI	A>"						

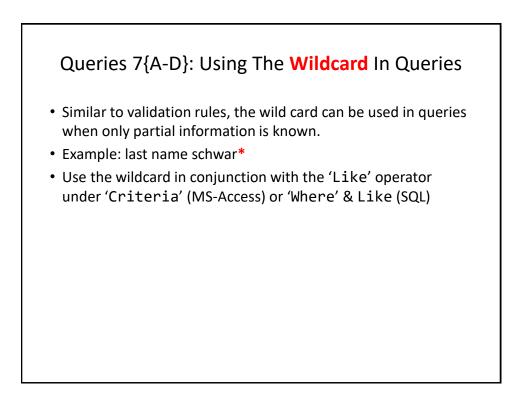




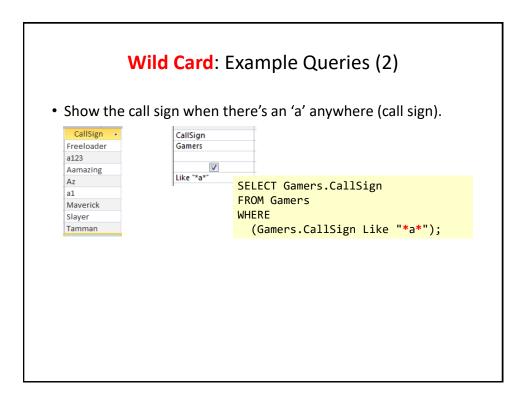




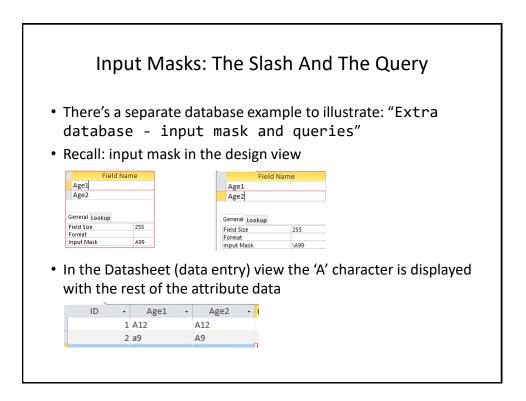


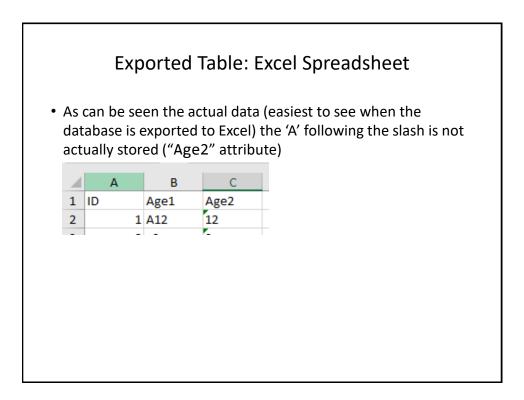


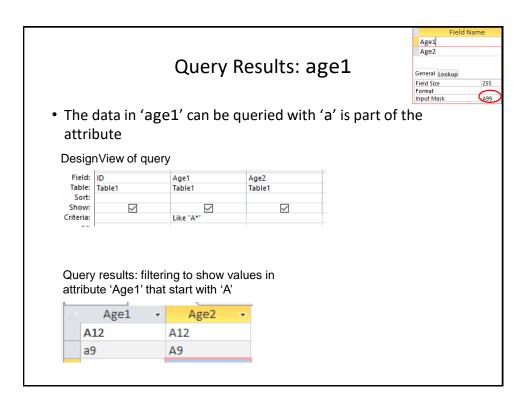
Wild	Card: Example Queries
 Show last name with the second se 	hen LastName begins with 't'
LastName - Texan Torrie Tam	LastName Gamers
Tam	SELECT Gamers.LastName FROM Gamers WHERE (Gamers.LastName Like "t*");
Show first and last	name when FirstName ends with 'm'
FirstName LastName Tam Wang Tam Tam	Gamers Gamers
	Like **m" SELECT Gamers.FirstName, Gamers.LastName



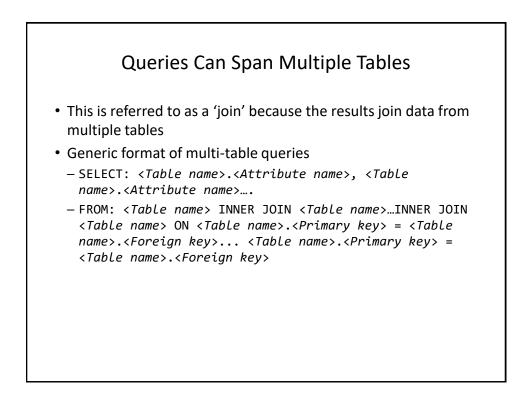
Sin	gle Character Wildcard '?'
	with only a single character between the '@' and the '.com' naracters before the at-sign)
Table to query:	Query design
foo@bar.ca a@b.com countryboi@hotmail.com	Field:EmailTable:GamersSort:Image: Sort:Show:Image: Sort:Criteria:Like "*@?.com"
cheap@skate.org rebel@yell.ca heather@morris.com	SELECT Gamers.Email FROM Gamers WHERE (Gamers.Email Like "*@?.com");
harry@mason.com tam_yeah_right@hotmail.com 1@1.com tama@aol.com gm ail@gmail.com 1@*.com	Query results:

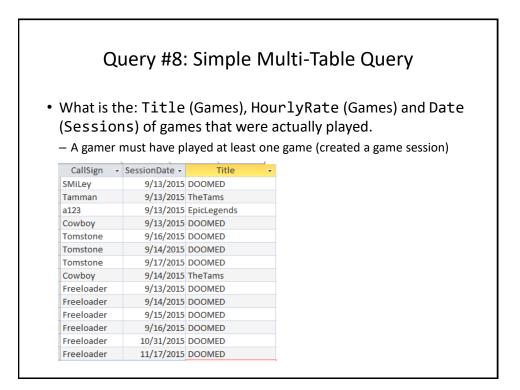


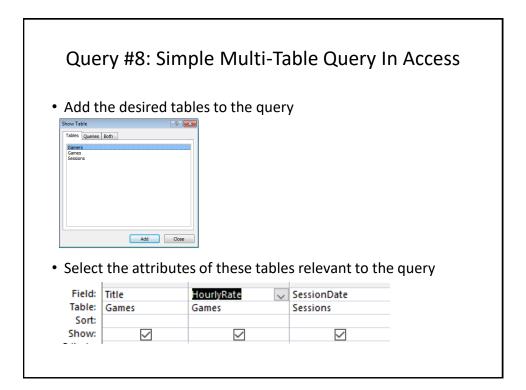


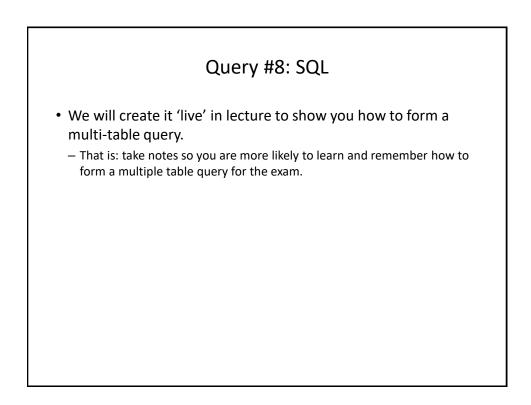


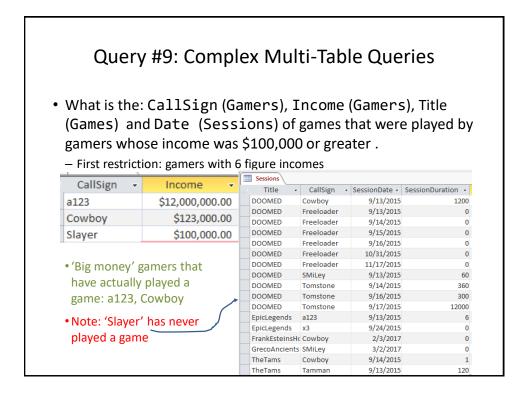
		Query Res	sults: age2	2 Field Name Age1 Age2 General Lookup Field Size 255 Format Input Mask (A99)
	data in 'ageź bute.	2' DOES NOT i	include 'a' as	
	, 0	•	produce no re ontain a lead	esults (i.e. proof that ing 'A')
Desig	nView of query			_
Field: Table: Sort:	ID Table1	Age1 Table1	Age2 Table1	-
Show: Criteria:			Like "A*"	-
Query	results			
			Query: Age 2 field	
∠ *	ID 🗸 (New)	Age1 🔹	Age2 🗸	





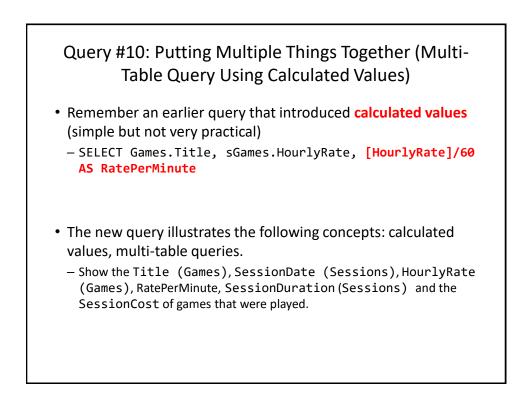


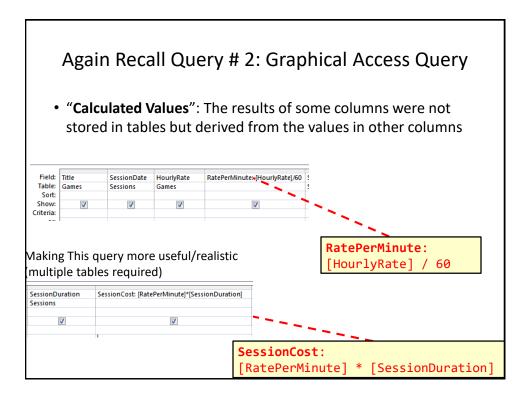


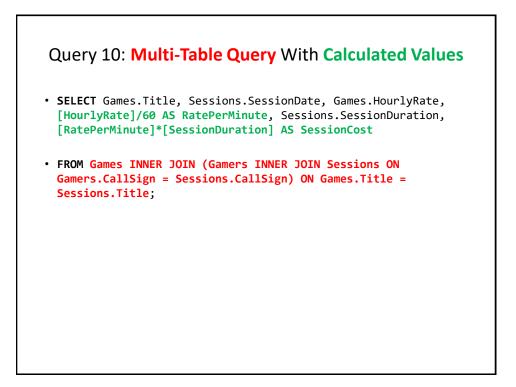


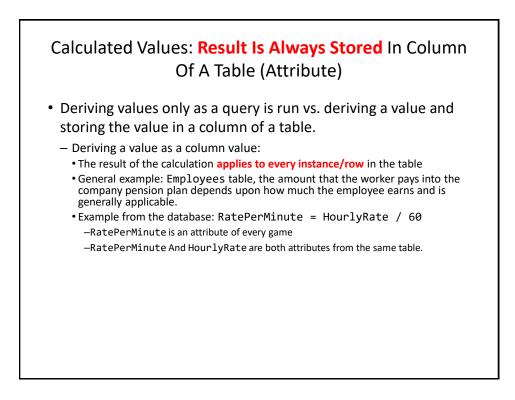
Earm					
гопп	ing the	e query			
(grap	hically	in Access	5)		
Field:			•	T (1) -	Caroline Data
Table:	CallSign Gamers		Income Gamers	Title Games	SessionDate Sessions
Sort:	Gamers		Gamers	Games	26310113
Show:		\checkmark	\checkmark		
Criteria:			>=100000		
	y resul				
CallS		Income -		SessionDate -	
CallS a123	ign 🗸	Income -	EpicLegends	9/13/2015	
CallS a123 Cowbo	ign →	Income + \$12,000,000.00 \$123,000.00	EpicLegends DOOMED	9/13/2015 9/13/2015	
CallS a123	iign - Y Y	Income -	EpicLegends DOOMED FrankEsteinsHorror	9/13/2015	
Ouer	v rocul	tc			

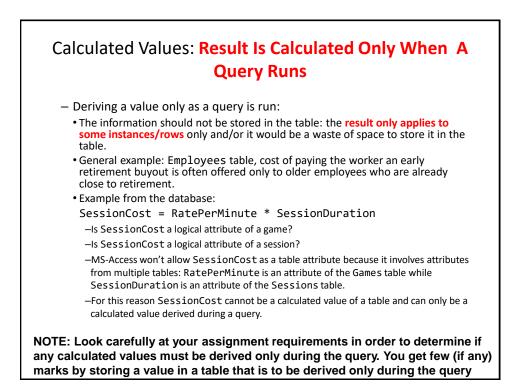
Query #9: Complex Multi-Table Queries (Building SQL With Reduced Bracketing) SELECT Gamers.CallSign, Gamers.Income, Games.Title, Sessions.SessionDate FROM: <Table name> INNER FROM Games INNER JOIN Gamers **INNER JOIN Sessions** JOIN <Table name>... ...ON Table name>.<Primary ON Gamers.CallSign = key> = <Table</pre> Sessions.CallSign) name>.<Foreign key>... ON Games.Title = <Table name>.<Primary key> Sessions.Title = <Table name>.<Foreign</pre> key> WHERE Gamers.Income >=100000;











Query #10: Forming The Queries
• SELECT Games.Title, Sessions.SessionDate, Games.HourlyRate, [HourlyRate]/60 AS RatePerMinute, Sessions.SessionDuration,
[RatePerMinute]*[SessionDuration] AS SessionCost
SessionCost: [RatePerMinute]*[SessionDuration]
 FROM Games INNER JOIN Sessions ON Games.Title = Sessions.Title;

