## **COMP 3311: Database Management Systems**

## Lecture 9 Exercises SQL Queries

Book( <u>bi</u>	<u>d</u> , title, subject, quar	ntityInStock, price, <i>aid</i> )	Author( <u>aid</u> , firstNa	ame, lastName)
Customer( <u>cid</u> , first	Name, lastName)	BookOrder(oid, cid, orde	erYear)	OrderDetails( <i>oid, bid</i> , quantity)
Exercise 1:		n keys of the Book Storents are included in the SC		
	Relation	Create Order		
	Author			
	Customer			
	Book			
	BookOrder			
	OrderDetails			
Exercise 2:	For all authors wh books by 5%.	no wrote books on at least	two subjects, incr	ease the price of all their

Exercise 3: Find the last name and first name of all authors who wrote books on both the subjects

of Art and Business.

Name: (1)	et/Family (PRINT)	Stude	nt#: (1)	Date:				
(0)								
NOTE: You are highly encouraged to do this exercise with a partner.								
	COMP 331	1: Database Ma	nagement Sys	tems				
		Lecture 9 Exe SQL Queri						
	NOTE: Use only SQL	constructs discussed in the	ne lectures to answer th	ese queries.				
Book( <u>bid</u>	, title, subject, quantity	InStock, price, aid)	Author( <u>aid</u> , firstN	Jame, lastName)				
Customer( <u>cid</u> , firstN	lame, lastName)	BookOrder(oid, cid, c	orderYear)	OrderDetails( <i>oid, bid</i> , quantity)				
				ote books on <u>exactly ten</u> ny derived relations.				
I				, find the customer id, last ueries; do not create any				
		d, last name and tota otal quantity of books		for those customers who				

Name: (1)	Last/Family (PRINT	/_	Student#: (1)	Date:
Name: (2)	Last/Family (PRINT		Student#: (2)	<del> </del>
	Lastraillily (PKINT)		u are highly encouraged to do this exercise with a partne	r.
Branch( <u>branch</u>	Name, district,	assets)	Account(accountNo, balance, branchName)	Borrower( <i>clientId, loanNo</i> )
Client( <u>clientId</u> ,	name, address	s, district)	Loan( <u>loanNo</u> , amount, <i>branchName</i> )	Depositor( <i>clientId, accountNo</i> )
Exercise	7: The following own if a 2% if so 4% if a 4%	wing PL, and to up schedule balance < 510,000 ≤ balance ≥ lly, if the ne accourte execute ountNo yable erest countCurs	/SQL procedure is used to calculate the date the account balance with the interest process. \$10,000 \$100,000 \$100,000 account balance is greater than or equal to not has a loan, then an additional 1% interest countCursor and borrowerCursor definition as correctly.	interest payable to an payable according to the sayable according to the \$100,000 and the client is given.  This is so that the PL/SQL
be	curren Dete percer if (acc pe elsif (a	tAccount ermine the ntInterest ountRecertentInterest accountR	ord.balance>=10000 <b>and</b> accountRecord.balarest := 0.02; lecord.balance >= 100000) <b>then</b> percentInte additional 1% interest if the client has a loan	rest := 0.04;
	end if end if Cald interes Upd updat	if (born pe end if; nd loop; culate the stPayable ate the cl e Accoun	erRecord in borrowerCursor loop rowerRecord.numLoans <> 0) then ercentInterest := percentInterest + 0.01; interest payable e := accountRecord.balance * percentInterest lient's account balance et set balance = balance + interestPayable ountNo=currentAccountNo;	t;
er	nd Calculateli	nterest:		