Lab 3: SQL4 - Data Manipulation Language 3 SECD - Database Universiti Teknologi Malaysia

Objective:	
1. To write	SELECT statements to access data from more than one table
Reference n	naterial: ORACLE Academy; academy.oracle.com
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Exercise 1: Joining Tables Using JOIN

Part 1: Creating Natural Joins.

- 1. Display all of the information about sales representatives and their addresses using a natural join.
- 2. Adapt the query from the previous question to only show the id, first name, last name, address line 1, address line 2, city, email and phone_number for the sales representatives.

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ild i	and the control of the same of the control of the same
10	SELECT ID, EMAIL "Email", FIRST_NAME "First Name", LAST_NAME
707	"Last Name", PHONE_NUMBER "Phone Number", COMMISSION_RATE
	"Commission Rate", SUPERVISOR_ID "SUPERVISOR ID", ADDRESS_LINE_
	"Address Line I", ADDRESS_LINE_2 "Address Line 2", CITY
	"City", ZIP_CODE "Zip Code" = 2 8 2000 Code
	FROM SALES_REPRESENTATIVES
	MATURAL JOIN SALES REPRESENTATIVES IL 1923
	HATURAL JOIN SALES_REP_ADDRESSES;
	i Jr. h = Qr. z m3 m3
2	SELECT 10, FIRST_NAME "First Name", LAST_NAME "Last Name",
α.	ADDRESS = LINE_1 * Address Line 1", ADDRESS_LINE_2
	"Address Line 2", CITY "City", EMAIL "Email", PHONE_NUMBER
	"Phone Number"
	FROM SALES_REPRESENTATIVES
	HATURAL JOIN SALES_REP_ADDRESSES;
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Part 2: Creating Joins with the USING Clause

- 1. Adapt the previous query answer to use the USING clause instead of a natural join.
- 2. Display all of the information about items and their price history by joining the items and price history tables.

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		POR PROPERTY OF THE SECOND
2.	SELECT	ID, FIRST_NAME "First Name", LAST_NAME "Last Name",
		ADDRESS_LINE_1 "Address Line 1", Address_Line-2
		ADDRESS_LINE_ 2 " Address Line 2", CITY "City", EMAIL "Email",
		PHONE_NUMBER "Phone Number"
	FROM	SALES_REPRESENTATIVES JOIN SALES_REP_ADDRESSES
	USING	(10);

Part 3: Creating Joins with the ON Clause

1. Use an ON clause to join the customer and sales representative table so that you display the customer number, customer fist name, customer last name, customer phone number, customer email, sales representative id, sales representative first name, sales representative last name and sales representative email. You will need to use a table alias in your answer as both tables have columns with the same name.

Part	3	" H DOMA 9. PENCE H " "
		FROM PROPERTY.
١.	SELECT	c. CTR_NUMBER "Customer Number", c. FIRST_Name "Cust First Name
		C. Last - C. LAST_NAME " Eust Last Name", C. PHONE - NUMBER
241		"Eust Phone Number", C. EMAIL "Email", S.10 "Sales Rep 10",
neir	-90.	S. FIRST_NAME "Sales Rep First Name", S. LAST_NAME
		"SALE" Sales Rep Last Name", S.EMAIL "Sales Rep Email"
	FROM	CUSTOMERS C
	30TH	SALES REPORT SALES RER
	MIOC	SALES_REPRESENTATIVES S
	ON	SRE_ID = ID;

Part 4: Creating Three-Way Joins with the ON Clause

1. Using the answer to Task 3 add a join that will allow the team's name that the customer represents to be included in the results.

Part 4	pict price earlier primit : Pariser I
1. SELECT	
1.614	" Cust FIRS First Name", c. LAST_NAME "Cust Last Name"
THI " IS W	c. PHONE_NUMBER "Cust Phone Number", s. EMAIL " Fmail",
Supplies N	S. ID " Sales Rep ID", S. FIRST_NAME "Sales Rep First Name",
1 500-1	Email", t. NAME "Team Name" 2291169
FROM	CUSTOMERS C"SLE TIE" 2000 AIE ("pil)
301H	SALES - REPRESENTATIVES STRESSED SELECT MINES
OH	c. SRE-ID = S. ID
NOC	TEAMS + - PRISEREL REPLESERED + 2 MAINTER
NO	c. TEM_ID = 1.10;

Part 5: Applying Additional Conditions to a Join

1. Using the answer to Task 4 add an additional condition to only show the results for the customer that has the number - c00001.

		, tipicone " 'n amid saibhi ' Liand. 🖨 22000	GH .
1.	SELECT	c. CTR-NUMBER "Customer Number", c. FIR	2ST_NAME "Cust First Name
		c-LAST-NAME "Cust Last Name", c. PHONE_N	NUMBER " Cust Phone Numb
		s. EMAIL "Email", s.ID "Sales Rep ID",	S. FIRST_NAME "Sales
		Rep First Name", s. LAST_NAME "Sqies	Rep Last Name",
		S-EMAIL "Email", +. Name +. NAME " Tec	am Name"
	FROM	CUSTOMERS C	2 1709
	JOIN	SALES_REPRESENTATIVES. S	
	ON	C.SRE_10 = S. ID made remark _ 12 in .	JI TJJJJE JEST
	MOC	TEAMS & SAIL SEEMAN SELVER & LINE	Un .
	NO	C.TEM_ID = 1.10 1 Control of which account	A STATE OF THE STA
	WHERE	CTR_NUMBER = 'COOOO!'; SALISTANDE	All Control of the Co

Part 6: Retrieving Records with Nonequijoins

1. Write a query that will display name and cost of the item with the number im01101045 on the 12th of December 2016. The output of the query should look like this:

The cost of the under shirt on this day was 14.99.

Part C	-
1. SELECT "The cost of the 'll i. NAME !! on 'll p. START_DATE !!	
was 'll p. PRICE II '. '	
FROM ITEMS i	
JOIN - PRICE_HISTORY POMOS US ASSEMBLE AND A SECOND OF THE PRICE AND A	
ON i. ITM_NUMBER = P. ITM_NUMBER	
WHERE I. ITM_NUMBER = " im 01101045!	
AND P. START_DATE = TO_DATE ('12-Dec-2016', DD-Mon-YYY'	(');
and the second s	

Exercise 2: Joining Tables Using JOIN

Part 1: Use a Self-Join to Join a Table to Itself

1. Write a query that will display who the supervisor is for each of the sales representatives. The information should be displayed in two columns, the first column will be the first name and last name of the sales representative and the second will be the first name and last name of the supervisor. The column aliases should be Rep and Supervisor.

ar	+ 1	
	To.	
(.	SELECT	r.FIRST_NAME II' 'II r.LAST_NAME AS "Rep",
		S. FIRST_NAME II ' 'II S. LAST_NAME AS "SUPERVISOF"
	FRam	SALES_REPRESENTATIVES T
	JOIN	SALES_ REPRESENTATIVES S
	ON	S. SUPERVISOR_ID = r.ID;

Part 2: Use OUTER joins

1. Write a query that will display all of the team and customer information even if there is no match with the table on the left (team).

Part 2	
1. SELECT	t.10, t.NAME "Name", t.NUMBER_OF_PLAYERS "No of Players "
1 7 74	t. DISCOUNT "DISCOUNT", c. CTR-NUMBER "Cust Number",
14.1	C.EMAIL "EMail", C.FIRST_NAME II 'II C. LAST_NAME AS
11 423	"Customer Name", c. PHONE_NUMBER "Phone Number",
	C. CURRENT_BALANCE "Current Baiance", c. SRE_ID "STE ID",
	C. TEM_ID " Team ID" , C. LOYALTY_CARD_ NUMBER - Loyarty
, pr	"Loyarty Card Number"
FROM	TERMS TEAMS & RIGHT OUTER JOIN CUSTOMERS C
ON	t.10 = c. TEM_10;

Part 3: Generating a Cartesian Product

1. Create a Cartesian product between the customer and sales representative tables.

I. SELECT	c. CTR_NUMBER "Customer Number", c. Email c. Email "Email",
	C.FIRST_NAME II ' ' II C.LAST_NAME AS "Customer Name",
	C. PHONE_NUMBER "Phone Number", C. CURRENT_BALANCE "Current
	Balance", c-SRE-ID "STE ID", c. TEM-ID "Team ID",
	C-LOYALTY_CARD_NUMBER "Loyalty Card Number", 1-10
	"Sales Representative ID", r. EMAIL "Email",
	r. FIRST_NAME 11'11 r. LAST_NAME AS "Sales Representative Name"
Total Transport	r. PHONE_NUMBER " Phone Number ", r. COMMISSION_RATE
	"Commission Rate", r. SUPERVISOR_ID "Supervisor ID"
FROM	CUSTOMERS C
1.51.4.4.5.1.5.1.5.1.5.1.5.1.5.1.5.1.5.1	OIN SALES REPRESENTATIVES F;