FACULTY OF COMPUTING
UTM Johor Bahru

SESSION 2023/2024 SEMESTER 1

SECD2523 - DATABASE

Lab Exercise 3

Name : Navindran A/L Raghupathy

Matric No. : A22EC0227

Section : 02

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Lecturer : Dr. Izyan Izzati binti Kamsani

Lab 3

Part 1

1 SELECT * FROM customers;

2 SELECT * FROM teams;

3 SELECT * FROM items;

4 SELECT ctr_number, first_name, last_name, email, phone_number FROM customers;

5 SELECT name, number_of_players FROM teams;

6 SELECT name, description, category FROM items;

Part 2

1 SELECT first_name, last_name, current_balance, Round(current_balance/12, 2) FROM customers;

2 SELECT first_name, last_name, current_balance, current_balance - 5.00 FROM customers;

3 The column name are not correctly labeled. Column name should only contain letters, numbers, $, # only.

4 SELECT first_name AS "First Name", last_name AS "Last Name", current_balance AS "Balance", Round(current_balance/12, 2) AS "Monthly Repayments" FROM customers;

5 SELECT 'the ' || name || ' team has ' || number_of_players || ' players and receives a discount of ' || discount || ' percent.' AS "Team Information" FROM teams;

6 Because the Rovers team's discount is NULL.

Part 3

1. SELECT * customers ~~WHERE~~ WHERE ctr_number = 'C01986';

2. SELECT first_name AS "First Name", last_name AS "Last Name", ctr_number AS "Customer Number" FROM customers WHERE current_balance > 100;

3. ~~SELECT id, odr_date AS~~

3. SELECT id, odr_date AS "Order Date", odr_time AS "Order Time" FROM orders WHERE odr_date < '28-MAY-19';

4. SELECT id, AS "Inventory Id", cost AS "Cost", units AS "Number of Units" FROM inventory_list WHERE cost BETWEEN 3.00 AND 15.00.

5. SELECT id AS "Inventory Id", cost AS "Cost", units AS "Number of Units" FROM inventory_list WHERE units IN (50, 100, 150, 200);

6. SELECT id AS "Inventory Id", cost AS "Cost", units AS "Number of Units" FROM inventory_list WHERE units NOT IN (50, 100, 150, 200);

7. SELECT name, itm_number AS "Item Number" FROM items WHERE name LIKE 'g%';

8. SELECT name, itm_number AS "Item number" FROM items WHERE name LIKE '_%0%_';

Part 4

1. SELECT 'The ' || name || ' team has ' || number_of_players || ' players and does not receive a discount.' AS "Team Information" FROM teams WHERE discount IS NOT NULL;

2. SELECT 'The ' || name || ' team has ' || number_of_players || ' players and receive a discount of ' || discount || ' percent.' AS "Team Information" FROM teams WHERE discount IS NOT NULL;

3 SELECT ctr_number AS "Customer Number", address_line_1 AS "street Address", zip_code As "Postal Code" FROM customers_address WHERE address_line_2 = 'Storford' AND city = 'Liverpool';

4 SELECT ctr_number AS "Customer Number", address_line_1 As "Street Address", zip_code As "Postal Code" FROM customers_address WHERE address_line_2 = 'Storford' OR city = 'Liverpool';

5 SELECT ctr_number As "Customer Number", address_line_1 As "Street Address", zip_code AS "Postal Code" FROM customers_address WHERE ~~address line 2~~ city NOT IN ('Liverpool');

Part 5

1 SELECT name AS "Team Name", number_of_players As "Number of Players" FROM teams ORDER BY name;

2 SELECT name As "Team Name", number_of_players As "Number of Players" FROM teams ORDER BY number_of_players DESC;

3 SELECT name AS "Team Name", number_of_players As "Players" FROM teams ORDER BY name DESC;

Part 6

1 SELECT ROWNUM AS "Highest Customer Number", first_name || ' ' || last_name As "Customer Name" FROM (SELECT first_name, last_name FROM customers ORDER BY ctr_number) WHERE ROWNUM <= 3;

2 SELECT first_name AS "First Name", last_name AS "Last Name" FROM sales_representatives WHERE commision_rate = : commision_rate ORDER BY last_name;

Lab 3

Part 1

1)

	CTR_NUMBER	EMAIL	FIRST_NAME	LAST_NAME	PHONE_NUMBER	CURRENT_BALANCE	SRE_ID	TEM_ID	LOYALTY_CARD_NUMBER
1	c00001	bob.thornberry@heatmail.com	Robert	Thornberry	01234567898	150	sr01	t001	(null)
2	c00012	Jjones@freemail.com	Jennifer	Jones	01505214598	0	(null)	(null)	lc1015
3	c00101	unknown@here.com	John	Doe	03216547808	987.5	sr01	t002	(null)
4	c00103	MurciaA@globaltech.com	Andrew	Murcia	07715246890	85	(null)	(null)	lc2341
5	c01986	marga187@delphiview.com	Maria	Galant	01442736589	125.65	sr03	t003	(null)
6	c02001	brianrog@hootech.com	Brian	ROGERS	01654564898	50	(null)	(null)	lc4587

2)

	ID	NAME	NUMBER_OF_PLAYERS	DISCOUNT
1	t001	Rockets	25	10
2	t002	Celtics	42	20
3	t003	Rovers	8	(null)
4	t004	Jets	10	5

3)

	ITM_NUMBER	NAME	DESCRIPTION	CATEGORY	COLOR	Size	ILT_ID
1	im01101044	gloves	catcher mitt	clothing	brown	m	i1010230124
2	im01101045	under shirt	top worn under the game top	clothing	white	s	i1010230125
3	im01101046	socks	team socks with emblem	clothing	range	l	i1010230126
4	im01101047	game top	team shirt with emblem	clothing	range	m	i1010230127
5	im01101048	premium bat	high quaity basball bat	equipment	(null)	(null)	i1010230128

4)

	CTR_NUMBER	FIRST_NAME	LAST_NAME	EMAIL	PHONE_NUMBER
1	c00001	Robert	Thornberry	bob.thornberry@heatmail.com	01234567898
2	c00012	Jennifer	Jones	Jjones@freemail.com	01505214598
3	c00101	John	Doe	unknown@here.com	03216547808
4	c00103	Andrew	Murcia	MurciaA@globaltech.com	07715246890
5	c01986	Maria	Galant	marga187@delphiview.com	01442736589
6	c02001	Brian	ROGERS	brianrog@hootech.com	01654564898

5)

	NAME	NUMBER_OF_PLAYERS
1	Rockets	25
2	Celtics	42
3	Rovers	8
4	Jets	10

6)

	NAME	DESCRIPTION	CATEGORY
1	gloves	catcher mitt	clothing
2	under shirt	top worn under the game top	clothing
3	socks	team socks with emblem	clothing
4	game top	team shirt with emblem	clothing
5	premium bat	high quaity basball bat	equipment

Part 2

1)

	FIRST_NAME	LAST_NAME	CURRENT_BALANCE	ROUND(CURRENT_BALANCE/12,2)
1	Robert	Thornberry	150	12.5
2	Jennifer	Jones	0	0
3	John	Doe	987.5	82.29
4	Andrew	Murcia	85	7.08
5	Maria	Galant	125.65	10.47
6	Brian	ROGERS	50	4.17

2)

	FIRST_NAME	LAST_NAME	CURRENT_BALANCE	CURRENT_BALANCE-5.00
1	Robert	Thornberry	150	145
2	Jennifer	Jones	0	-5
3	John	Doe	987.5	982.5
4	Andrew	Murcia	85	80
5	Maria	Galant	125.65	120.65
6	Brian	ROGERS	50	45

3)

First Name	Last Name	Balance	Monthly Repayments
1 Robert	Thornberry	150	12.5
2 Jennifer	Jones	0	0
3 John	Doe	987.5	82.29
4 Andrew	Murcia	85	7.08
5 Maria	Galant	125.65	10.47
6 Brian	ROGERS	50	4.17

4)

Team Information
1 THE Rockets team has 25 players and receive a discount of 10 percent.
2 THE Celtics team has 42 players and receive a discount of 20 percent.
3 THE Rovers team has 8 players and receive a discount of percent.
4 THE Jets team has 10 players and receive a discount of 5 percent.

Part 3

1)

Team Information
1 THE Rockets team has 25 players and receive a discount of 10 percent.
2 THE Celtics team has 42 players and receive a discount of 20 percent.
3 THE Rovers team has 8 players and receive a discount of percent.
4 THE Jets team has 10 players and receive a discount of 5 percent.

2)

First Name	Last Name	Cutomer Number
1 Robert	Thornberry	c00001
2 John	Doe	c00101
3 Maria	Galant	c01986

3)

	ID	Order Date	Order Time
1	or0101250	17-APR-17	17-APR-17
2	or0101350	24-MAY-17	24-MAY-17
3	or0101425	28-MAY-17	28-MAY-17
4	or0101681	02-JUN-17	02-JUN-17
5	or0101750	18-JUN-17	18-JUN-17

4)

	Inventory ID	Cost	Number of Units
1	i1010230125	7.99	250
2	i1010230126	5.24	87

5)

	Inventory ID	Cost	Number of Units
1	i1010230124	2.5	100

6)

	Inventory ID	Cost	Number of Units
1	i1010230125	7.99	250
2	i1010230126	5.24	87
3	i1010230127	18.95	65
4	i1010230128	97.46	8

7)

	NAME	Item Number
1	gloves	im01101044
2	game top	im01101047

8)

	NAME	Item Number
1	gloves	im01101044
2	socks	im01101046
3	game top	im01101047

Part 4

1)

	Team Information
1	THE Rovers team has 8 players and does not receive a discount.

2)

	Team Information
1	THE Rockets team has 25 players and receive a discount of 10 percent.
2	THE Celtics team has 42 players and receive a discount of 20 percent.
3	THE Jets team has 10 players and receive a discount of 5 percent.

3)

	Customer Number	Street Address	Postal Code
1	c00001	17 Gartsquare Road	LP89JHK

4)

	Customer Number	Street Address	Postal Code
1	c00001	17 Gartsquare Road	LP89JHK
2	c00001	63 Acacia Drive	LP83JHR

5)

	Customer Number	Street Address	Postal Code
1	c00101	54 Ropehill Crescent	ST45AGV
2	c01986	36 Watercress Lane	JP23YTH

Part 5

1)

	Team Name	Number of Players
1	Celtics	42
2	Jets	10
3	Rockets	25
4	Rovers	8

2)

	Team Name	Number of Players
1	Celtics	42
2	Rockets	25
3	Jets	10
4	Rovers	8

3)

	Team Name	Players
1	Rovers	8
2	Rockets	25
3	Jets	10
4	Celtics	42

Part 6

1)

	Highest Customer Number	Customer Name
1	1	Robert Thornberry
2	2	Jennifer Jones
3	3	John Doe

2)