



UTM
UNIVERSITI TEKNOLOGI MALAYSIA

SESSION 2023/2024 SEMESTER 1

SECD2523 – DATABASE

Lab Exercise 4

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Section : 10

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Lab 4

Part 1

1) SELECT * FROM sales-representatives NATURAL JOIN sales-rep-addresses;

2) SELECT id, first_name, last_name, address-line-1, address-line-2, city, email, phone-number FROM sales-representatives NATURAL JOIN sales-rep-addresses USING (id);

3) SELECT id, first_name, last_name, address-line-1, address-line-2, city, email, phone-number FROM sales-representatives JOIN sales-rep-addresses;

4) SELECT * FROM items JOIN price-history USING (item-number);

5) SELECT c.ctr_number AS "Customer Number", c.first_name AS "Customer First Name", c.last_name AS "Customer Last Name", c.phone-number AS "Customer phone number", c.email AS "Customer Email", s.id AS "Salesman ID", s.first_name AS "Salesman First Name", s.last_name AS "Salesman Last Name", s.email AS "Salesman Email" FROM customers c JOIN sales-representatives s ON (c.sre_id = s.id);

6) SELECT c.ctr_number AS "Customer Number", c.first_name AS "Customer First Name", c.last_name AS "Customer Last Name", c.phone-number AS "Customer phone number", c.email AS "Customer Email", s.id AS "Salesman ID", s.first_name AS "Salesman First Name", s.last_name AS "Salesman Last Name", s.email AS "Salesman Email", t.name AS "Team Name" FROM customers c JOIN sales-representatives s ON (c.sre_id = s.id) JOIN teams t ON (c.team_id = t.id);

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7) SELECT c.ctc_number AS "Customer Number", c.first_name AS
   "Customer First Name", c.last_name AS "Customer Last Name",
   c.phone_number AS "Salesman ID", s.first_name AS "Salesman
   First Name", s.last_name AS "Salesman Last Name", s.email AS
   "Salesman Email", t.name AS "Team Name"
   FROM customers c JOIN sales_representatives s
   ON (c.sre_id = s.id)
   JOIN teams t
   ON (c.team_id = t.id)
   WHERE c.ctc_number = '000001';

```

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8) SELECT 'The cart at the ' || i.name || ' on this day was ' ||
   p.price AS "Price Details"
   FROM items i JOIN price_history p ON i.item_number = p.
   item_number WHERE item_number = 'im01jebus' AND TO_DATE
   ('12-DEC-2016', 'DD-Mon-YYYY') BETWEEN p.start_date
   AND p.end_date;

```

Part 2

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1) SELECT rep.first_name || ' ' || rep.last_name AS "Rep",
   sup.first_name || ' ' || sup.last_name AS "Supervisor"
   FROM sales_representatives rep JOIN sales_representatives sup
   ON (rep.supervisor_id = sup.id);

```

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2) SELECT *
   FROM teams LEFT OUTER JOIN customers
   ON (id = team_id);

```

```

3) SELECT *
   FROM customers
   CROSS JOIN sales_representatives;

```


LAB 4

Part 1:

1.0

ID	EMAIL	FIRST_NAME	LAST_NAME	PHONE_NUMBER	COMMISSION_RATE	SUPERVISOR_ID	ADDRESS_LINE_1	ADDRESS_LINE_2	CITY	ZIP_CODE
1 sr01	chray@obl.com	Charles	Raymond	0134598761	10	sr01	12 Cherry Lane	Denton	Detroit	DT48211
2 sr02	vwright@obl.com	Victoria	Wright	0134598762	5	sr01	87 Blossom Hill	Uptown	Detroit	DT52314
3 sr03	bspeed@obl.com	Barry	Speed	0134598763	5	sr01	12 Junction Row	Skinflats	Detroit	DT52564

2.0

ID	FIRST_NAME	LAST_NAME	ADDRESS_LINE_1	ADDRESS_LINE_2	CITY	EMAIL	PHONE_NUMBER
1 sr01	Charles	Raymond	12 Cherry Lane	Denton	Detroit	chray@obl.com	0134598761
2 sr02	Victoria	Wright	87 Blossom Hill	Uptown	Detroit	vwright@obl.com	0134598762
3 sr03	Barry	Speed	12 Junction Row	Skinflats	Detroit	bspeed@obl.com	0134598763

3.0

ID	FIRST_NAME	LAST_NAME	ADDRESS_LINE_1	ADDRESS_LINE_2	CITY	EMAIL	PHONE_NUMBER
1 sr01	Charles	Raymond	12 Cherry Lane	Denton	Detroit	chray@obl.com	0134598761
2 sr02	Victoria	Wright	87 Blossom Hill	Uptown	Detroit	vwright@obl.com	0134598762
3 sr03	Barry	Speed	12 Junction Row	Skinflats	Detroit	bspeed@obl.com	0134598763

4.0

ITM_NUMBER	NAME	DESCRIPTION	CATEGORY	COLOR	Size	ILT_ID	START_DATE	START_TIME	PRICE	END_DATE	END_TIME
1 im01101044	gloves	catcher mitt	clothing	brown	m	i1010230124	17-JUN-17	17-JUN-16	4.99 (null)	(null)	
2 im01101045	under shirt	top worn under the game top	clothing	white	s	i1010230125	25-NOV-16	25-NOV-16	14.99	25-JAN-17	25-JAN-17
3 im01101045	under shirt	top worn under the game top	clothing	white	s	i1010230125	25-JAN-17	25-JAN-17	8.99	25-JAN-17	25-JAN-17
4 im01101045	under shirt	top worn under the game top	clothing	white	s	i1010230125	26-JAN-17	26-JAN-17	15.99 (null)	(null)	
5 im01101046	socks	team socks with emblem	clothing	range	l	i1010230126	12-FEB-17	12-FEB-17	7.99 (null)	(null)	
6 im01101047	game top	team shirt with emblem	clothing	range	m	i1010230127	25-APR-17	25-APR-17	24.99 (null)	(null)	
7 im01101048	premium bat	high quality baseball bat	equipment	(null)	(null)	i1010230128	31-MAY-17	31-MAY-17	149	09-NOV-23	09-NOV-23
8 im01101048	premium bat	high quality baseball bat	equipment	(null)	(null)	i1010230128	09-NOV-23	09-NOV-23	99.99	09-NOV-23	09-NOV-23

5.0

	Customer number	Customer First Name	Customer Last Name	Customer Phone Number	Customer Email	Salesman ID	Salesman First Name	Salesman Last Name	Salesman Email
1	c00001	Robert	Thornberry	01234567898	bob.thornberry@heatmail.com	sr01	Charles	Raymond	chray@cbl.com
2	c00101	John	Doe	03216547808	unknown@here.com	sr01	Charles	Raymond	chray@cbl.com
3	c01986	Maria	Galant	01442736589	margal87@delphiview.com	sr03	Barry	Speed	bspeed@cbl.com

6.0

	Customer number	Customer First Name	Customer Last Name	Customer Phone Number	Customer Email	Salesman ID	Salesman First Name	Salesman Last Name	Salesman Email	Team Name
1	c00001	Robert	Thornberry	01234567898	bob.thornberry@heatmail.com	sr01	Charles	Raymond	chray@cbl.com	Rockets
2	c00101	John	Doe	03216547808	unknown@here.com	sr01	Charles	Raymond	chray@cbl.com	Celtics
3	c01986	Maria	Galant	01442736589	margal87@delphiview.com	sr03	Barry	Speed	bspeed@cbl.com	Rovers

7.0

	Customer number	Customer First Name	Customer Last Name	Customer Phone Number	Customer Email	Salesman ID	Salesman First Name	Salesman Last Name	Salesman Email	Team Name
1	c00001	Robert	Thornberry	01234567898	bob.thornberry@heatmail.com	sr01	Charles	Raymond	chray@cbl.com	Rockets

8.0

Price Details
1 The cost of the under shirt on this day was 14.99

Part 2 :

1.0

Rep	Supervisor
1 Charles Raymond	Charles Raymond
2 Victoria Wright	Charles Raymond
3 Barry Speed	Charles Raymond

2.0

ID	NAME	NUMBER_OF_PLAYERS	DISCOUNT	CTR_NUMBER	EMAIL	FIRST_NAME	LAST_NAME	PHONE_NUMBER	CURRENT_BALANCE	SRE_ID	TEM_ID	LOYALTY_CARD_NUMBER
1 t001	Rockets	25	10 c00001		bob.thornberry@heatmail.com	Robert	Thornberry	01234567898	150 ar01	t001		(null)
2 t002	Celtics	42	20 c00101		unknown@here.com	John	Doe	03216547808	987.5 ar01	t002		(null)
3 t003	Rovers	8	(null) c01994		margal87@delphiview.com	Maria	Galant	01442734599	125.65 ar03	t003		(null)
4 t004	Jets	10	5 (null)		(null)	(null)	(null)	(null)	(null) (null)	(null)		(null)

3.0

CTR_NUMBER	EMAIL	FIRST_NAME	LAST_NAME	PHONE_NUMBER	CURRENT_BALANCE	SRE_ID	TEM_ID	LOYALTY_CARD_NUMBER	ID	EMAIL_1	FIRST_NAME_1	LAST_NAME_1	PHONE_NUMBER_1	COMMISSION_RATE	SUPERVISOR_ID
c00001	bob.thornberry@heatmail.com	Robert	Thornberry	01234567898	150 ar01	t001	(null)		ar01	chcay@chl.com	Charles	Raymond	0134598761	10 ar01	
c00012	j.jones@fremail.com	Jennifer	Jones	01505214599	0 (null)	(null)	1c1013		ar01	chcay@chl.com	Charles	Raymond	0134598761	10 ar01	
c00101	unknown@here.com	John	Doe	03216547808	987.5 ar01	t002	(null)		ar01	chcay@chl.com	Charles	Raymond	0134598761	10 ar01	
c00103	Wazniak@globaltech.com	Andrew	Wazniak	07733246899	85 (null)	(null)	1c2341		ar01	chcay@chl.com	Charles	Raymond	0134598761	10 ar01	
c01994	margal87@delphiview.com	Maria	Galant	01442734599	125.65 ar03	t003	(null)		ar01	chcay@chl.com	Charles	Raymond	0134598761	10 ar01	
c02001	brianrog@hootech.com	Brian	ROGERS	01654564998	50 (null)	(null)	1c4587		ar01	chcay@chl.com	Charles	Raymond	0134598761	10 ar01	
c04001	bob.thornberry@heatmail.com	Robert	Thornberry	01234567898	150 ar01	t001	(null)		ar02	vwright@chl.com	Victoria	Wright	0134598761	5 ar01	
c05012	j.jones@fremail.com	Jennifer	Jones	01505214599	0 (null)	(null)	1c1013		ar02	vwright@chl.com	Victoria	Wright	0134598761	5 ar01	
c09101	unknown@here.com	John	Doe	03216547808	987.5 ar01	t002	(null)		ar02	vwright@chl.com	Victoria	Wright	0134598761	5 ar01	
c09103	Wazniak@globaltech.com	Andrew	Wazniak	07733246899	85 (null)	(null)	1c2341		ar02	vwright@chl.com	Victoria	Wright	0134598761	5 ar01	
c01994	margal87@delphiview.com	Maria	Galant	01442734599	125.65 ar03	t003	(null)		ar02	vwright@chl.com	Victoria	Wright	0134598761	5 ar01	
c02001	brianrog@hootech.com	Brian	ROGERS	01654564998	50 (null)	(null)	1c4587		ar02	vwright@chl.com	Victoria	Wright	0134598761	5 ar01	
c04001	bob.thornberry@heatmail.com	Robert	Thornberry	01234567898	150 ar01	t001	(null)		ar02	bspeed@chl.com	Barry	Speed	0134598761	5 ar01	
c05012	j.jones@fremail.com	Jennifer	Jones	01505214599	0 (null)	(null)	1c1013		ar02	bspeed@chl.com	Barry	Speed	0134598761	5 ar01	
c09101	unknown@here.com	John	Doe	03216547808	987.5 ar01	t002	(null)		ar02	bspeed@chl.com	Barry	Speed	0134598761	5 ar01	
c09103	Wazniak@globaltech.com	Andrew	Wazniak	07733246899	85 (null)	(null)	1c2341		ar02	bspeed@chl.com	Barry	Speed	0134598761	5 ar01	
c01994	margal87@delphiview.com	Maria	Galant	01442734599	125.65 ar03	t003	(null)		ar02	bspeed@chl.com	Barry	Speed	0134598761	5 ar01	
c02001	brianrog@hootech.com	Brian	ROGERS	01654564998	50 (null)	(null)	1c4587		ar02	bspeed@chl.com	Barry	Speed	0134598761	5 ar01	