

SQL-A DML 3Part 2Question 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

Question 2

1. SELECT id, first-name, last-name, address-line-1, address-line-2, city, email, phone-number
FROM sales-representatives JOIN sales-rep-addresses
USING (id)
2. SELECT * FROM items JOIN price-history
USING (itm-number)

Question 3

1. SELECT
C.ctr-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,
Sr.id,
Sr.first-name AS sales-rep-first-name,
Sr.last-name AS sales-rep-last-name,
Sr.email AS sales-rep-email

FROM customers C JOIN sales-representatives sr
ON C.sre-id = sr.id

Question 4

1. 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,
Sr.id AS sales-rep-id,
Sr.first-name AS sales-rep-first-name,
Sr.last-name AS sales-rep-last-name,
Sr.email AS sales-rep-email,
t.name

FROM
customers C JOIN sales-representatives sr
ON C.sre-id = sr.id
JOIN teams t
ON C.item-id = t.id

Question 5

1. SELECT

C.ctr-number,
C.first-name,
C.last-name,
C.phone-number,
C.email,
SR.id,
SR.first-name,
SR.last-name,
SR.email,
T.name

FROM customers C JOIN ~~sales-representatives~~ SR

ON C.sre_id = SR.id

JOIN teams T

ON C.team_id = T.id

WHERE C.ctr-number = 'C02001'

Question 6

1. Select 'The cost of the ' || i.name || ' on this day was ' || p.price || ' AS ''

FROM items i JOIN price-history p

~~ON~~ ON i.item-number = p.item-number

WHERE i.item-number = ~~10101015~~ 10101015 AND p.start_date = '12-Dec-2016'

Part 2

Question 1

```
1. SELECT  
  r.first-name || ' ' || r.last-name AS Rep,  
  s.first-name || ' ' || s.last-name AS Supervisor  
FROM sales-representatives r JOIN sales-representatives s  
ON r.supervisor-id = s.supervisor-id
```

Question 2

```
1. SELECT *  
FROM teams t LEFT OUTER JOIN Customers c  
ON t.id = c.team_id
```

Question 3

```
1. SELECT *  
FROM Customers  
CROSS JOIN sales-representatives
```

OUTPUT

Part 1

Question 1

The screenshot shows the Oracle SQL Developer interface. The 'Query Builder' tab is active, displaying the following SQL query:

```
SELECT * FROM sales_representatives  
NATURAL JOIN sales_rep_addresses
```

The 'Query Result' tab shows the results of the query. It indicates that 3 rows were fetched in 0.021 seconds. The results are displayed in a table with the following columns: ID, EMAIL, FIRST_NAME, LAST_NAME, PHONE_NUMBER, COMMISSION_RATE, SUPERVISOR_ID, ADDRESS_LINE_1, ADDRESS_LINE_2, CITY, and ZIP_CODE.

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

The 'Messages - Log' tab is also visible at the bottom, showing the 'Logging Page' and 'Statements'.

The screenshot shows the Oracle SQL Developer interface. The 'Query Builder' tab is active, displaying the following SQL query:

```
SELECT  
id, first_name, last_name, address_line_1, address_line_2, city, email, phone_number  
FROM sales_representatives NATURAL JOIN sales_rep_addresses
```

The 'Query Result' tab shows the results of the query. It indicates that 3 rows were fetched in 0.004 seconds. The results are displayed in a table with the following columns: ID, FIRST_NAME, LAST_NAME, ADDRESS_LINE_1, ADDRESS_LINE_2, CITY, EMAIL, and PHONE_NUMBER.

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

The 'Messages - Log' tab is also visible at the bottom, showing the 'Logging Page' and 'Statements'.

Question 2

The screenshot shows the SQL Developer interface with a query window titled 'SALES_REPRESENTATIVES'. The query is a SELECT statement joining 'sales_representatives' and 'sales_rep_addresses' on the 'id' column. The query result shows three rows of data.

```
SELECT
id, first_name, last_name, address_line_1, address_line_2, city, email, phone_number
FROM sales_representatives JOIN sales_rep_addresses
USING (id)
```

Query Result: All Rows Fetched: 3 in 0.003 seconds

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

Messages - Log
Messages | Logging Page | Statements

The screenshot shows the SQL Developer interface with a query window titled 'PRICE_HISTORY'. The query is a SELECT statement joining 'items' and 'price_history' on the 'itm_number' column. The query result shows eight rows of data.

```
SELECT * FROM items
JOIN price_history
USING (itm_number)
```

Query Result: All Rows Fetched: 8 in 0.009 seconds

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	17/06/2017	17/06/2016	4.99	(null)	(null)
2 im01101045	under shirt	top worn under the game top	clothing	white	s	i1010230125	25/11/2016	25/11/2016	14.99	25/01/2017	25/01/2017
3 im01101045	under shirt	top worn under the game top	clothing	white	s	i1010230125	25/01/2017	25/01/2017	8.99	25/01/2017	25/01/2017
4 im01101045	under shirt	top worn under the game top	clothing	white	s	i1010230125	26/01/2017	26/01/2017	15.99	(null)	(null)
5 im01101046	socks	team socks with emblem	clothing	range	l	i1010230126	12/02/2017	12/02/2017	7.99	(null)	(null)
6 im01101047	game top	team shirt with emblem	clothing	range	m	i1010230127	25/04/2017	25/04/2017	24.99	(null)	(null)
7 im01101048	premium bat	high quality baseball bat	equipment	(null)	(null)	i1010230128	31/05/2017	31/05/2017	149.08	08/11/2023	08/11/2023
8 im01101048	premium bat	high quality baseball bat	equipment	(null)	(null)	i1010230128	08/11/2023	08/11/2023	99.99	(null)	(null)

Messages - Log
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Question 3

The screenshot shows the Oracle SQL Developer interface. The Query Builder window displays a query that joins the CUSTOMERS table (aliased as c) with the SALES_REPRESENTATIVES table (aliased as sr) on the condition c.sre_id = sr.id. The query selects customer details and sales representative details, with some columns aliased for clarity.

Query Builder SQL:

```
SELECT
  sr.id,
  sr.first_name AS sales_rep_first_name,
  sr.last_name AS sales_rep_last_name,
  sr.email AS sales_rep_email
FROM
  customers c
JOIN
  sales_representatives sr
ON
  c.sre_id = sr.id;
```

The Query Result window shows the following data:

CTR_NUMBER	CUSTOMER_FIRST_NAME	CUSTOMER_LAST_NAME	CUSTOMER_PHONE_NUMBER	CUSTOMER_EMAIL	ID	SALES_REP_FIRST_NAME	SALES_REP_LAST_NAME	SALES_REP_EMAIL
1 c00001	Robert	Thornberry	01234567898	bob.thornberry@heatmail.com	sr01	Charles	Raymond	chray@obl.com
2 c00101	John	Doe	03216547808	unknown@here.com	sr01	Charles	Raymond	chray@obl.com
3 c01986	Maria	Galant	01442736589	margal87@delphiview.com	sr03	Barry	Speed	bspeed@obl.com

Question 4

CTR_NUMBER	CUSTOMER_FIRST_NAME	CUSTOMER_LAST_NAME	CUSTOMER_PHONE_NUMBER	CUSTOMER_EMAIL	ID	SALES_REP_FIRST_NAME	SALES_REP_LAST_NAME	SALES_REP_EMAIL	NAME
1 c00001	Robert	Thornberry	01234567898	bob.thornberry@heatmail.com	sr01	Charles	Raymond	chray@obl.com	Rockets
2 c00101	John	Doe	03216547808	unknown@here.com	sr01	Charles	Raymond	chray@obl.com	Celtics
3 c01986	Maria	Galant	01442736589	margal87@delphiview.com	sr03	Barry	Speed	bspeed@obl.com	Rovers

Question 5

The screenshot shows the Oracle SQL Developer interface with a query result window displaying a single row of data.

CTR_NUMBER	CUSTOMER_FIRST_NAME	CUSTOMER_LAST_NAME	CUSTOMER_PHONE_NUMBER	CUSTOMER_EMAIL	ID	SALES_REP_FIRST_NAME	SALES_REP_LAST_NAME	SALES_REP_EMAIL	NAME
1 c00001	Robert	Thornberry	01234567898	bob.thornberry@heatmail.com	sr01	Charles	Raymond	chray@obl.com	Rockets

Part 2

Question 1

Query Result	
All Rows Fetched: 9 in 0.004 seconds	
REP	SUPERVISOR
1 Charles Raymond	Charles Raymond
2 Victoria Wright	Charles Raymond
3 Barry Speed	Charles Raymond
4 Charles Raymond	Victoria Wright
5 Victoria Wright	Victoria Wright
6 Barry Speed	Victoria Wright
7 Charles Raymond	Barry Speed
8 Victoria Wright	Barry Speed
9 Barry Speed	Barry Speed

Question 2

Query Result x

 All Rows Fetched: 4 in 0.002 seconds

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	sr01	t001	(null)
2	t002 Celtics	42	20	c00101	unknown@here.com	John	Doe	03216547808	987.5	sr01	t002	(null)
3	t003 Rovers	8	(null)	c01986	margal87@delphiview.com	Maria	Galant	01442736589	125.65	sr03	t003	(null)
4	t004 Jets	10	5	(null)	(null)	(null)	(null)	(null)	(null)	(null)	(null)	(null)

Question 3

Oracle SQL Developer : DML1

FileEditViewNavigateRunSourceTeamToolsWindowHelp

DML1CUSTOMERS

WorksheetQuery Builder

SELECT

Script Output xQuery Result x

SQLAll Rows Fetched: 18 in 0.002 seconds

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_N	
1	c00001	bob.thornberry@heatmail.com	Robert	Thornberry	01234567898	150	sr01	t001	(null)	sr01	chray@obl.com	Charles	Raymond
2	c00012	Jjones@freemail.com	Jennifer	Jones	01505214598	0	(null)	(null)	1c1015	sr01	chray@obl.com	Charles	Raymond
3	c00101	unknown@here.com	John	Doe	03216547808	987.5	sr01	t002	(null)	sr01	chray@obl.com	Charles	Raymond
4	c00103	MurciaA@globaltech.com	Andrew	Murcia	07715246890	85	(null)	(null)	1c2341	sr01	chray@obl.com	Charles	Raymond
5	c01986	margal87@delphiview.com	Maria	Galant	01442736589	125.65	sr03	t003	(null)	sr01	chray@obl.com	Charles	Raymond
6	c02001	brianrog@hootech.com	Brian	Rogers	01654564898	50	(null)	(null)	1c4587	sr01	chray@obl.com	Charles	Raymond
7	c00001	bob.thornberry@heatmail.com	Robert	Thornberry	01234567898	150	sr01	t001	(null)	sr02	wright@obl.com	Victoria	Wright
8	c00012	Jjones@freemail.com	Jennifer	Jones	01505214598	0	(null)	(null)	1c1015	sr02	wright@obl.com	Victoria	Wright
9	c00101	unknown@here.com	John	Doe	03216547808	987.5	sr01	t002	(null)	sr02	wright@obl.com	Victoria	Wright
10	c00103	MurciaA@globaltech.com	Andrew	Murcia	07715246890	85	(null)	(null)	1c2341	sr02	wright@obl.com	Victoria	Wright
11	c01986	margal87@delphiview.com	Maria	Galant	01442736589	125.65	sr03	t003	(null)	sr02	wright@obl.com	Victoria	Wright
12	c02001	brianrog@hootech.com	Brian	Rogers	01654564898	50	(null)	(null)	1c4587	sr02	wright@obl.com	Victoria	Wright
13	c00001	bob.thornberry@heatmail.com	Robert	Thornberry	01234567898	150	sr01	t001	(null)	sr03	bspeed@obl.com	Barry	Speed
14	c00012	Jjones@freemail.com	Jennifer	Jones	01505214598	0	(null)	(null)	1c1015	sr03	bspeed@obl.com	Barry	Speed
15	c00101	unknown@here.com	John	Doe	03216547808	987.5	sr01	t002	(null)	sr03	bspeed@obl.com	Barry	Speed
16	c00103	MurciaA@globaltech.com	Andrew	Murcia	07715246890	85	(null)	(null)	1c2341	sr03	bspeed@obl.com	Barry	Speed
17	c01986	margal87@delphiview.com	Maria	Galant	01442736589	125.65	sr03	t003	(null)	sr03	bspeed@obl.com	Barry	Speed
18	c02001	brianrog@hootech.com	Brian	Rogers	01654564898	50	(null)	(null)	1c4587	sr03	bspeed@obl.com	Barry	Speed

Messages - Log

MessagesLogging PageStatements

Line 2 Column 2InsertModifiedWindows