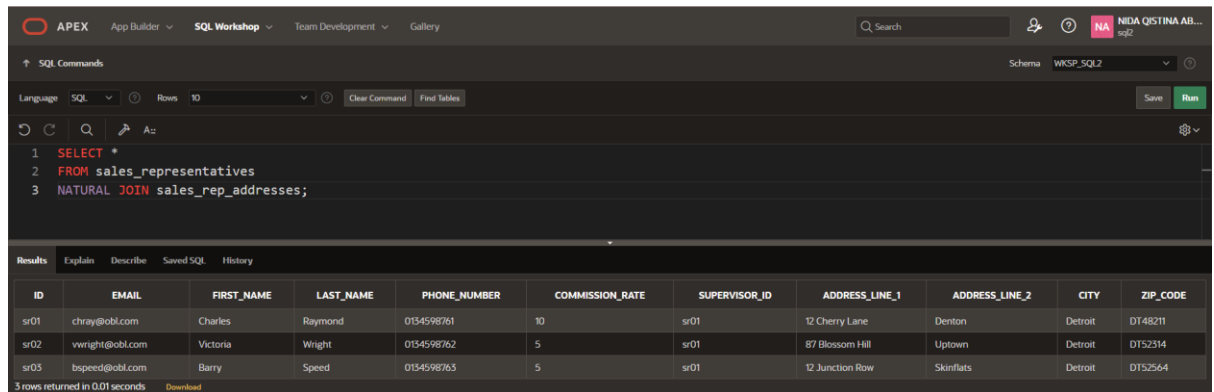


## PART 1

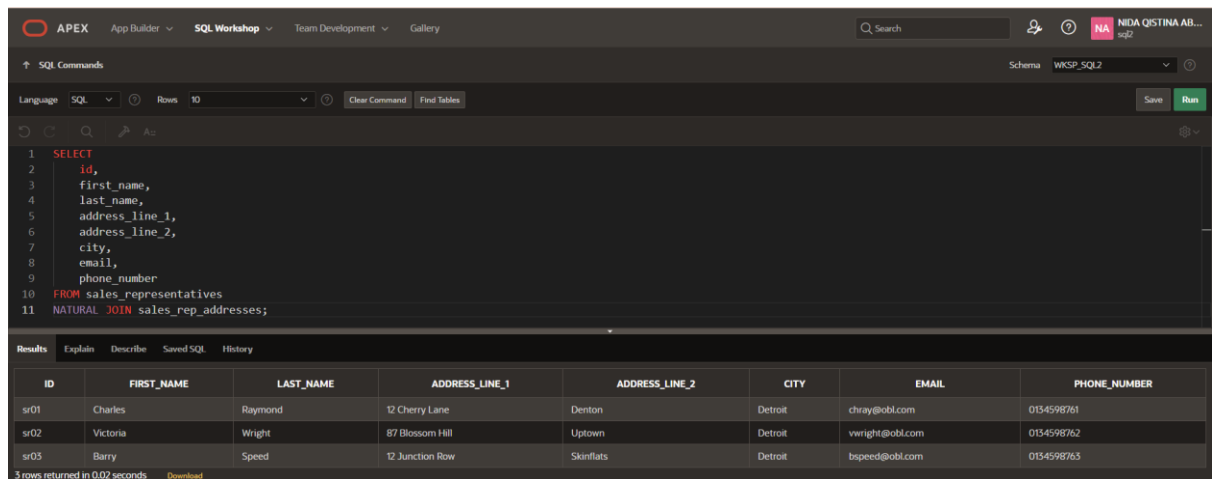
1.



The screenshot shows the APEX SQL Workshop interface. The SQL command is: `SELECT * FROM sales_representatives NATURAL JOIN sales_rep_addresses;`. The results table has 11 columns: ID, EMAIL, FIRST\_NAME, LAST\_NAME, PHONE\_NUMBER, COMMISSION\_RATE, SUPERVISOR\_ID, ADDRESS\_LINE\_1, ADDRESS\_LINE\_2, CITY, and ZIP\_CODE. Three rows are returned.

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

2.

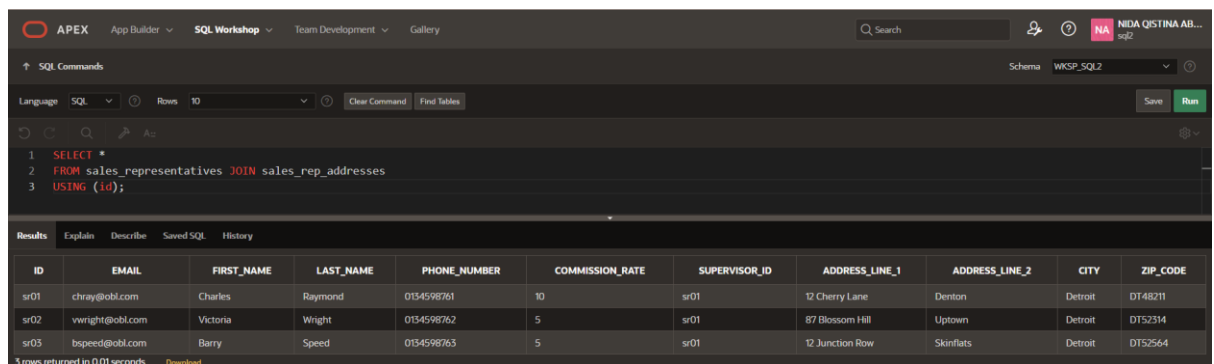


The screenshot shows the APEX SQL Workshop interface. The SQL command is: `SELECT id, first_name, last_name, address_line_1, address_line_2, city, email, phone_number FROM sales_representatives NATURAL JOIN sales_rep_addresses;`. The results table has 8 columns: ID, FIRST\_NAME, LAST\_NAME, ADDRESS\_LINE\_1, ADDRESS\_LINE\_2, CITY, EMAIL, and PHONE\_NUMBER. Three rows are returned.

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

## PART 2

1.



The screenshot shows the APEX SQL Workshop interface. The SQL command is: `SELECT * FROM sales_representatives JOIN sales_rep_addresses USING (id);`. The results table has 11 columns: ID, EMAIL, FIRST\_NAME, LAST\_NAME, PHONE\_NUMBER, COMMISSION\_RATE, SUPERVISOR\_ID, ADDRESS\_LINE\_1, ADDRESS\_LINE\_2, CITY, and ZIP\_CODE. Three rows are returned.

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

2.

The screenshot shows the APEX SQL Workshop interface. The SQL command is:

```
1 SELECT *
2 FROM items JOIN price_history
3 USING (itm_number);
```

The results table has 12 columns: ITM\_NUMBER, NAME, DESCRIPTION, CATEGORY, COLOR, Size, ILT\_ID, START\_DATE, START\_TIME, PRICE, END\_DATE, and END\_TIME. It contains 8 rows of data.

ITM_NUMBER	NAME	DESCRIPTION	CATEGORY	COLOR	Size	ILT_ID	START_DATE	START_TIME	PRICE	END_DATE	END_TIME
im0101048	premium bat	high quality basball bat	equipment	-	-	#010230128	12/15/2025	12/15/2025	99.99	-	-
im0101044	gloves	catcher mitt	clothing	brown	m	#010230124	06/11/2017	06/11/2016	4.99	-	-
im0101045	under shirt	top worn under the game top	clothing	white	s	#010230125	11/25/2016	11/25/2016	14.99	01/25/2017	01/25/2017
im0101045	under shirt	top worn under the game top	clothing	white	s	#010230125	01/25/2017	01/25/2017	8.99	01/25/2017	01/25/2017
im0101045	under shirt	top worn under the game top	clothing	white	s	#010230125	01/26/2017	01/26/2017	15.99	-	-
im0101046	socks	team socks with emblem	clothing	range	l	#010230126	02/12/2017	02/12/2017	7.99	-	-
im0101047	game top	team shirt with emblem	clothing	range	m	#010230127	04/25/2017	04/25/2017	24.99	-	-
im0101048	premium bat	high quality basball bat	equipment	-	-	#010230128	05/31/2017	05/31/2017	149	12/15/2025	12/15/2025

8 rows returned in 0.04 seconds

## PART 3

The screenshot shows the APEX SQL Workshop interface. The SQL command is:

```
1 SELECT
2   c.ctr_number,
3   c.first_name,
4   c.last_name,
5   c.phone_number,
6   c.email,
7   sr.id,
8   sr.first_name,
9   sr.last_name,
10  sr.email
11 FROM customers c
12 JOIN sales_representatives sr
13 ON (c.sre_id = sr.id);
```

The results table has 9 columns: CTR\_NUMBER, FIRST\_NAME, LAST\_NAME, PHONE\_NUMBER, EMAIL, ID, FIRST\_NAME, LAST\_NAME, and EMAIL. It contains 3 rows of data.

CTR_NUMBER	FIRST_NAME	LAST_NAME	PHONE_NUMBER	EMAIL	ID	FIRST_NAME	LAST_NAME	EMAIL
c00001	Robert	Thornberry	01234567898	bob.thornberry@heatmail.com	sr01	Charles	Raymond	chray@obl.com
c00101	John	Doe	03216547808	unknown@here.com	sr01	Charles	Raymond	chray@obl.com
c01966	Maria	Galant	01442736589	margal87@delphiview.com	sr03	Barry	Speed	bspeed@obl.com

3 rows returned in 0.01 seconds

## PART 4

The screenshot shows the APEX SQL Workshop interface. The SQL command is:

```
1 SELECT
2   c.ctr_number,
3   c.first_name,
4   c.last_name,
5   c.phone_number,
6   c.email,
7   sr.id,
8   sr.first_name,
9   sr.last_name,
10  sr.email,
11  t.name AS "TEAM NAME"
12 FROM customers c
13 JOIN sales_representatives sr
14 ON (c.sre_id = sr.id)
15 JOIN teams t
16 ON c.tem_id = t.id;
```

The results table has 10 columns: CTR\_NUMBER, FIRST\_NAME, LAST\_NAME, PHONE\_NUMBER, EMAIL, ID, FIRST\_NAME, LAST\_NAME, EMAIL, and TEAM NAME. It contains 3 rows of data.

CTR_NUMBER	FIRST_NAME	LAST_NAME	PHONE_NUMBER	EMAIL	ID	FIRST_NAME	LAST_NAME	EMAIL	TEAM NAME
c00001	Robert	Thornberry	01234567898	bob.thornberry@heatmail.com	sr01	Charles	Raymond	chray@obl.com	Rockets
c00101	John	Doe	03216547808	unknown@here.com	sr01	Charles	Raymond	chray@obl.com	Celtics
c01966	Maria	Galant	01442736589	margal87@delphiview.com	sr03	Barry	Speed	bspeed@obl.com	Rovers

3 rows returned in 0.01 seconds

PART 5

APEX

App Builder

SQL Workshop

Team Development

Gallery

Search

NA

NIDA QISTINA AB...

sql

SQL Commands

Schema WKSP\_SQL2

Language SQL

Rows 10

Clear Command

Find Tables

Save

Run

1

SELECT

2

c.ctr\_number,

3

c.first\_name,

4

c.last\_name,

5

c.phone\_number,

6

c.email,

7

sr.id,

8

sr.first\_name,

9

sr.last\_name,

10

sr.email,

11

t.name AS "TEAM NAME"

12

FROM customers c

13

JOIN sales\_representatives sr

14

ON (c.srv\_id = sr.id)

15

JOIN teams t

16

ON c.team\_id = t.id

17

WHERE c.ctr\_number = 'c00001';

Results

Explain

Describe

Saved SQL

History

CTR_NUMBER	FIRST_NAME	LAST_NAME	PHONE_NUMBER	EMAIL	ID	FIRST_NAME	LAST_NAME	EMAIL	TEAM NAME
c00001	Robert	Thornberry	01234567898	bob.thornberry@heatmail.com	sr01	Charles	Raymond	chray@obl.com	Rockets

1 rows returned in 0.01 secondsDownload

PART 6

APEX

App Builder

SQL Workshop

Team Development

Gallery

Search

NA

NIDA QISTINA AB...

sql

SQL Commands

Schema WKSP\_SQLNIDA

Language SQL

Rows 10

Clear Command

Find Tables

Save

Run

1

SELECT

2

'The cost of the ' || i.name || 'on this day was ' || ph.price AS "ITEM DETAILS"

3

FROM items i

4

JOIN price\_history ph

5

ON (TO\_DATE('12-Dec-2016', 'DD-MM-YYYY') BETWEEN ph.start\_date AND ph.end\_date)

6

WHERE i.itm\_number = 'im01101045'

Results

Explain

Describe

Saved SQL

History

ITEM DETAILS

The cost of the under shirton this day was 14.99

1 rows returned in 0.02 secondsDownload

nidaqistina@graduate.utm.my

sql\_nida

en

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