



UTM
UNIVERSITI TEKNOLOGI MALAYSIA

**SECD2523
DATABASE**

SECTION 10

SQL LAB 3 - DML 2 PART 1

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Section 6 Lesson 6 Exercise 1: Retrieving Data Using SELECT

Write and execute SELECT statements (S6L6 Objective 2)

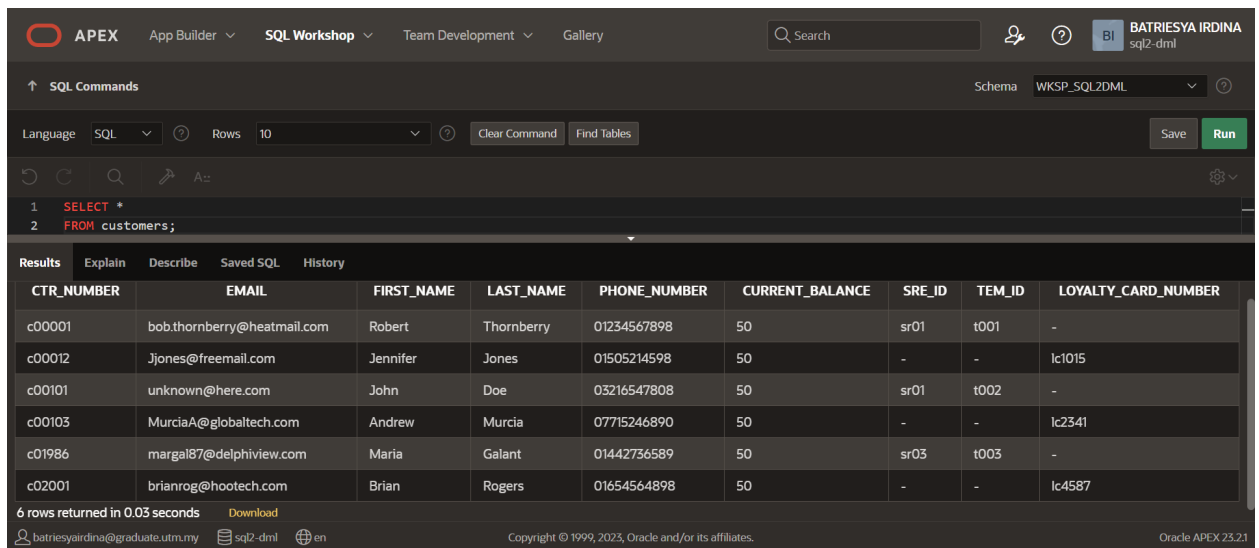
In this exercise, you will retrieve data that is stored in the database system by using a SELECT statement.

Part 1: Retrieving all columns from a table

Using the SELECT* statement, show all data stored in the following tables:

1. customers

- **SELECT***
FROM customers;



The screenshot shows the APEX SQL Workshop interface. The top navigation bar includes 'APEX', 'App Builder', 'SQL Workshop', 'Team Development', and 'Gallery'. A search bar and user profile 'BATRIESYA IRDINA' are also visible. The 'SQL Commands' section shows the executed query: `1 SELECT *` and `2 FROM customers;`. The 'Results' tab is active, displaying a table with 6 rows and 9 columns: CTR_NUMBER, EMAIL, FIRST_NAME, LAST_NAME, PHONE_NUMBER, CURRENT_BALANCE, SRE_ID, TEM_ID, and LOYALTY_CARD_NUMBER. The data is as follows:

CTR_NUMBER	EMAIL	FIRST_NAME	LAST_NAME	PHONE_NUMBER	CURRENT_BALANCE	SRE_ID	TEM_ID	LOYALTY_CARD_NUMBER
c00001	bob.thornberry@heatmail.com	Robert	Thornberry	01234567898	50	sr01	t001	-
c00012	jones@freemail.com	Jennifer	Jones	01505214598	50	-	-	lc1015
c00101	unknown@here.com	John	Doe	03216547808	50	sr01	t002	-
c00103	MurciaA@globaltech.com	Andrew	Murcia	07715246890	50	-	-	lc2341
c01986	margal87@delphiview.com	Maria	Galant	01442736589	50	sr03	t003	-
c02001	brianrog@hootech.com	Brian	Rogers	01654564898	50	-	-	lc4587

At the bottom, it states '6 rows returned in 0.03 seconds' and includes a 'Download' link. The footer shows the user 'batriesyairdina@graduate.utrm.my', file type 'sql2-dml', language 'en', and version 'Oracle APEX 23.2.1'.

2. teams

- **SELECT***
FROM teams;

APEX App Builder SQL Workshop Team Development Gallery

Search

Schema: WKSP_SQL2DML

Language: SQL Rows: 10 Clear Command Find Tables Save Run

```
1 SELECT *
2 FROM teams;
```

Results Explain Describe Saved SQL History

ID	NAME	NUMBER_OF_PLAYERS	DISCOUNT
t001	Rockets	25	10
t002	Celtics	42	20
t003	Rovers	8	-
t004	Jets	10	5

4 rows returned in 0.03 seconds Download

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3. items

- **SELECT***
FROM items;

APEX App Builder SQL Workshop Team Development Gallery

Search

Schema: WKSP_SQL2DML

Language: SQL Rows: 10 Clear Command Find Tables Save Run

```
1 SELECT *
2 FROM items;
```

Results Explain Describe Saved SQL History

ITM_NUMBER	NAME	DESCRIPTION	CATEGORY	COLOR	Size	ILT_ID
im01101044	gloves	catcher mitt	clothing	brown	m	il010230124
im01101045	under shirt	top worn under the game top	clothing	white	s	il010230125
im01101046	socks	team socks with emblem	clothing	range	l	il010230126
im01101047	game top	team shirt with emblem	clothing	range	m	il010230127
im01101048	premium bat	high quaity baseball bat	equipment	-	-	il010230128

5 rows returned in 0.03 seconds Download

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Part 2: Selecting specific columns

1. Display the customer number, first name, last name, email and phone number of the customers.

- **SELECT** ctr_number, email, first_name, last_name, phone_number
FROM customers;

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

```
1 SELECT ctr_number, email, first_name, last_name, phone_number
2 FROM customers;
```

The results are displayed in a table with 6 rows:

CTR_NUMBER	EMAIL	FIRST_NAME	LAST_NAME	PHONE_NUMBER
c00001	bob.thornberry@heatmail.com	Robert	Thornberry	01234567898
c00012	Jjones@freemail.com	Jennifer	Jones	01505214598
c00101	unknown@here.com	John	Doe	03216547808
c00103	MurciaA@globaltech.com	Andrew	Murcia	07715246890
c01986	margal87@delphiview.com	Maria	Galant	01442736589
c02001	brianrog@hootech.com	Brian	Rogers	01654564898

6 rows returned in 0.00 seconds

2. Display the name and number of players for each team.

- **SELECT** name, number_of_players
FROM teams;

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

```
1 SELECT name, number_of_players
2 FROM teams;
```

The results are displayed in a table with 4 rows:

NAME	NUMBER_OF_PLAYERS
Rockets	25
Celtics	42
Rovers	8
Jets	10

4 rows returned in 0.02 seconds

3. Display the name, description and category for every item in the table.

- **SELECT name, description, category**
FROM items;

The screenshot displays the Oracle APEX SQL Workshop interface. At the top, the navigation bar includes 'APEX', 'App Builder', 'SQL Workshop', 'Team Development', and 'Gallery'. The user is logged in as 'BATRIESYA IRDINA' with the session 'sql2.dml'. The 'SQL Commands' section shows the executed query: `SELECT name, description, category FROM items;`. The 'Results' tab is active, displaying a table with 5 rows. The table has three columns: 'NAME', 'DESCRIPTION', and 'CATEGORY'. The data rows are: gloves (catcher mitt, clothing), under shirt (top worn under the game top, clothing), socks (team socks with emblem, clothing), game top (team shirt with emblem, clothing), and premium bat (high quality baseball bat, equipment). The status bar at the bottom indicates '5 rows returned in 0.02 seconds' and includes a 'Download' link. The footer shows the user's email 'batriesyairdina@graduate.utm.my', the session 'sql2.dml', and the version 'Oracle APEX 23.21'.

NAME	DESCRIPTION	CATEGORY
gloves	catcher mitt	clothing
under shirt	top worn under the game top	clothing
socks	team socks with emblem	clothing
game top	team shirt with emblem	clothing
premium bat	high quaity baseball bat	equipment