



**UTM**  
UNIVERSITI TEKNOLOGI MALAYSIA

**SCHOOL OF COMPUTING**  
**SESSION 2023/2024, SEMESTER 3**  
**SECD2523 - DATABASE**  
**SECTION 10**

**SQL LAB 3 - DML2 PART1**

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## Section 6 Lesson 6 Exercise 1: Retrieving Data Using SELECT

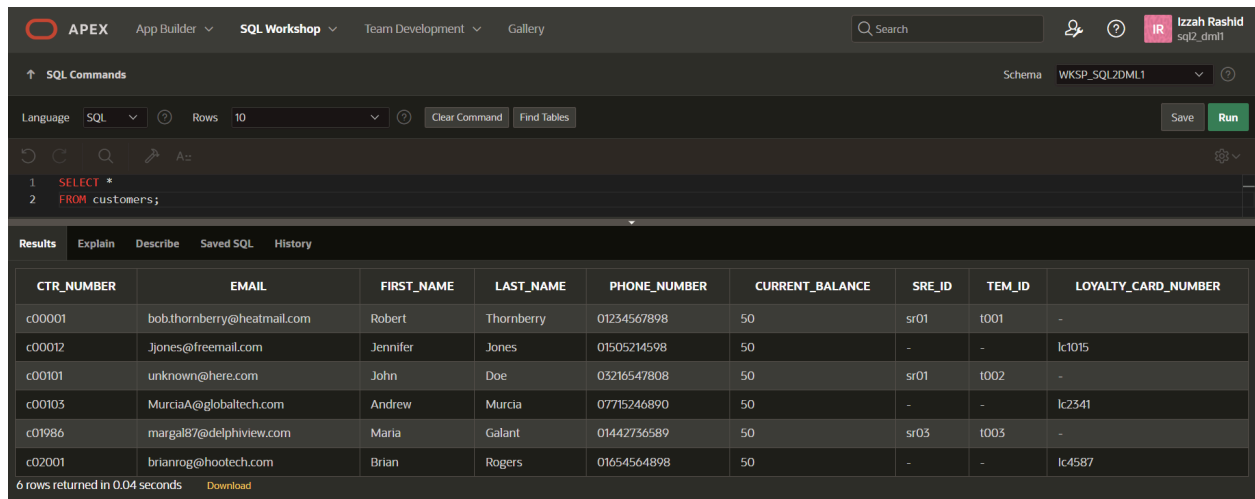
Write and Execute SELECT statements (S6L6 Objective 2)

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.



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

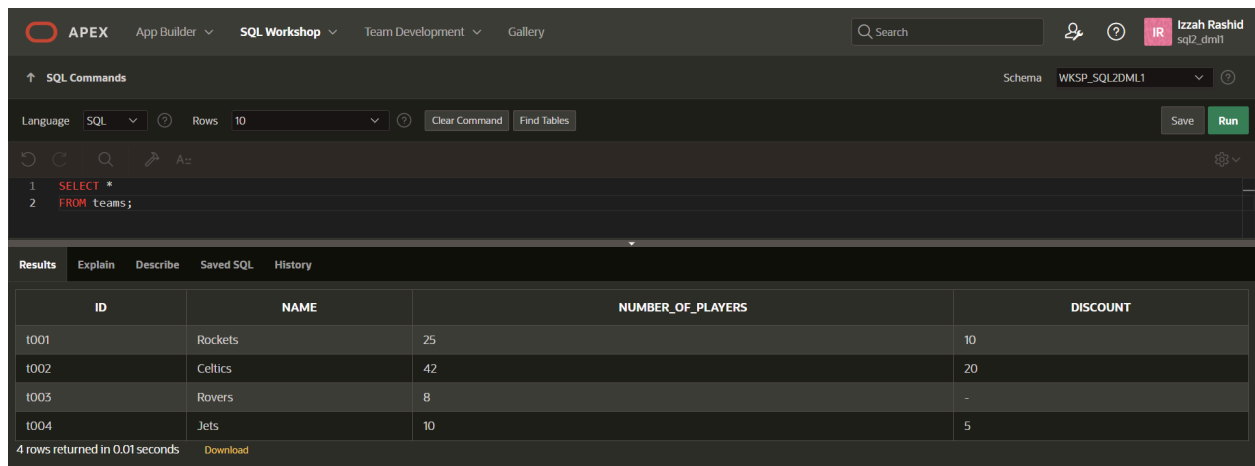
```
1 SELECT *
2 FROM customers;
```

The results table shows the following data:

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	j.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

6 rows returned in 0.04 seconds

#### 2. teams.



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

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

The results table shows the following data:

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 0.01 seconds

### 3. items

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

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

The results are displayed in a table with 7 columns: ITM\_NUMBER, NAME, DESCRIPTION, CATEGORY, COLOR, Size, and ILT\_ID. There are 5 rows of data.

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 quality baseball bat	equipment	-	-	il010230128

5 rows returned in 0.02 seconds

## Part 2: Selecting Specific Columns

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

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

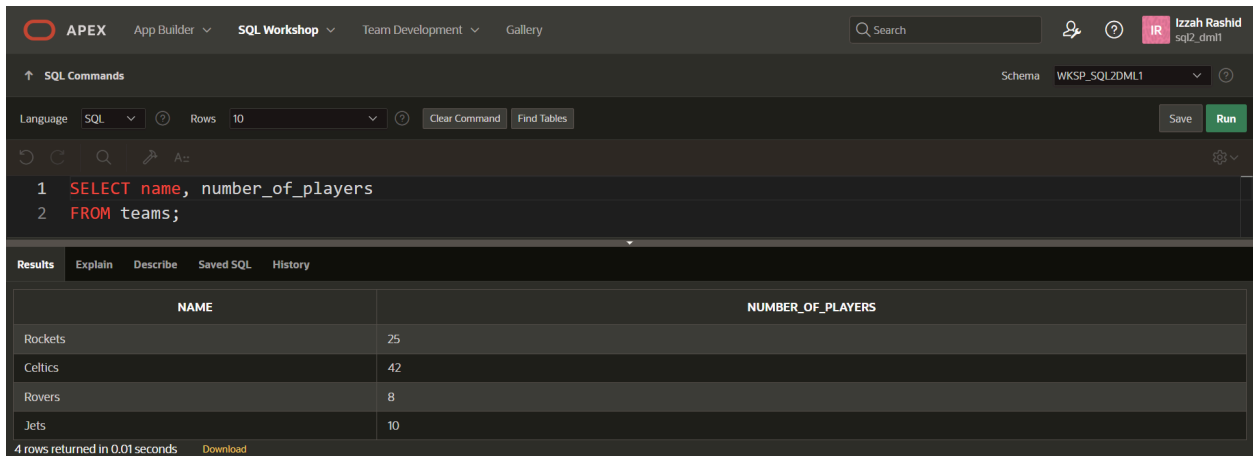
```
1 SELECT ctr_number, email, first_name, last_name, phone_number
2 FROM customers;
```

The results are displayed in a table with 5 columns: CTR\_NUMBER, EMAIL, FIRST\_NAME, LAST\_NAME, and PHONE\_NUMBER. There are 6 rows of data.

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

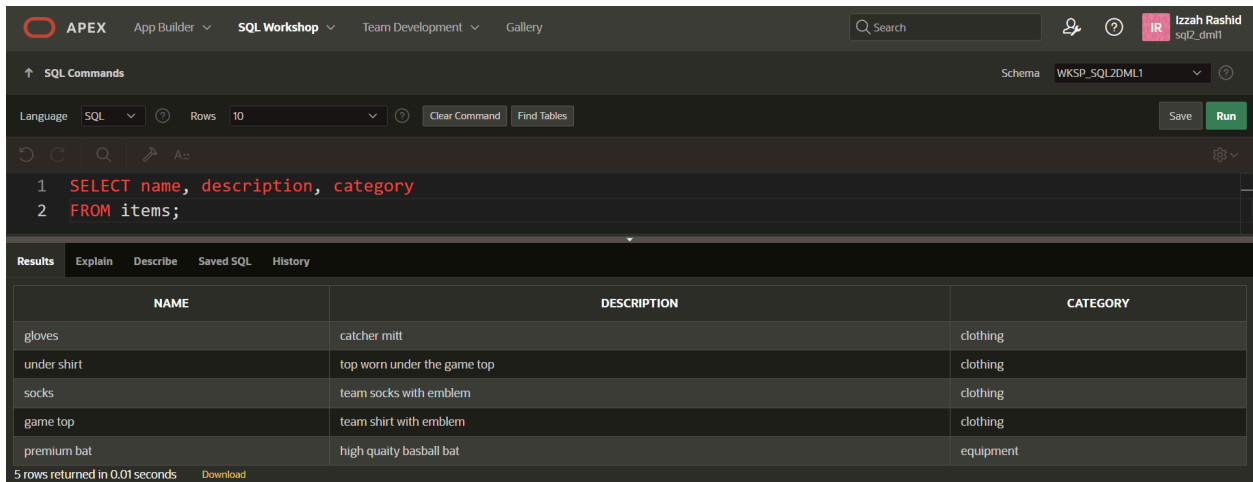
2. Display the name and number of players for each team.



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 'Izzah Rashid sql2\_dml1' are on the right. The 'SQL Commands' section shows a query: `1 SELECT name, number_of_players` and `2 FROM teams;`. The 'Results' tab displays a table with two columns: 'NAME' and 'NUMBER\_OF\_PLAYERS'. The table contains four rows of data. Below the table, it states '4 rows returned in 0.01 seconds' and provides a 'Download' link.

NAME	NUMBER_OF_PLAYERS
Rockets	25
Celtics	42
Rovers	8
Jets	10

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



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 'Izzah Rashid sql2\_dml1' are on the right. The 'SQL Commands' section shows a query: `1 SELECT name, description, category` and `2 FROM items;`. The 'Results' tab displays a table with three columns: 'NAME', 'DESCRIPTION', and 'CATEGORY'. The table contains five rows of data. Below the table, it states '5 rows returned in 0.01 seconds' and provides a 'Download' link.

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 quality baseball bat	equipment