



UTM
UNIVERSITI TEKNOLOGI MALAYSIA

SECD2523 - DATABASE

SECTION 10

SQL 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.

The screenshot displays the APEX SQL Workshop interface. At the top, the navigation bar includes 'APEX', 'App Builder', 'SQL Workshop', 'Team Development', and 'Gallery'. A search bar and user profile 'ALIA MAISARAH lab2part1' are also visible. The 'SQL Commands' panel shows a query: `1 SELECT *` and `2 FROM customers;`. The 'Results' tab is active, displaying a table with 9 columns: CTR_NUMBER, EMAIL, FIRST_NAME, LAST_NAME, PHONE_NUMBER, CURRENT_BALANCE, SRE_ID, TEM_ID, and LOYALTY_CARD_NUMBER. The table contains 6 rows of data. At the bottom, a status bar indicates '6 rows returned in 0.02 seconds' with a 'Download' link.

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	Jjones@freemail.com	Jennifer	Jones	01505214598	50	-	-	lc1015
c00101	unknown@here.com	John	Doe	05216547808	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

2. teams.

SQL Commands Schema WKSP_LAB2PART1

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

3. items

SQL Commands Schema WKSP_LAB2PART1

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 quaiy baseball bat	equipment	-	-	il010230128

5 rows returned in 0.03 seconds Download

Part 2: Selecting Specific Columns

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

SQL Commands

Schema: WKSP_LAB2PART1

Language: SQL Rows: 10

Clear Command Find Tables Save Run

```

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

```

Results Explain Describe Saved SQL History

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

6 rows returned in 0.00 seconds Download

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

SQL Commands

Schema: WKSP_LAB2PART1

Language: SQL Rows: 10

Clear Command Find Tables Save Run

```

1 SELECT name, number_of_players
2 FROM teams;

```

Results Explain Describe Saved SQL History

NAME	NUMBER_OF_PLAYERS
Rockets	25
Celtics	42
Rovers	8
Jets	10

4 rows returned in 0.00 seconds Download

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

↑ SQL Commands

SchemaWKSP_LAB2PART1

LanguageSQL

Rows10

Clear Command

Find Tables

Save

Run

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1SELECT name, description, category

2FROM items;

Results

Explain

Describe

Saved SQL

History

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

5 rows returned in 0.03 seconds

Download