



# UTM

UNIVERSITI TEKNOLOGI MALAYSIA

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**SECD2523 - DATABASE**

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**SQL3 – DML2**

**2023/2024**

**PREPARED BY: TEAM HAPPY**

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## Database Design Project

### Oracle Baseball League Store Database

#### Project Scenario:

You are a small consulting company specializing in database development. You have just been awarded the contract to develop a data model for a database application system for a small retail store called Oracle Baseball League (OBL).

The Oracle Baseball League store serves the entire surrounding community selling baseball kit. The OBL has two types of customer, there are individuals who purchase items like balls, cleats, gloves, shirts, screen printed t-shirts, and shorts. Additionally customers can represent a team when they purchase uniforms and equipment on behalf of the team.

Teams and individual customers are free to purchase any item from the inventory list, but teams get a discount on the list price depending on the number of players. When a customer places an order we record the order items for that order in our database.

OBL has a team of three sales representatives that officially only call on teams but have been known to handle individual customer complaints.



### 3. items

The screenshot shows the Oracle APEX SQL Workshop interface. The top navigation bar includes 'APEX', 'App Builder', 'SQL Workshop', 'Team Development', and 'Gallery'. A search bar and user profile 'Jia Yu Ong' are on the right. The 'SQL Commands' tab is active, showing a query: `SELECT * FROM items;`. The 'Results' tab displays a table with 5 rows. The footer shows '5 rows returned in 0.03 seconds' and a 'Download' button.

ITEM_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 quaiya baseball bat	equipment	-	-	il010230128

## 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 Oracle APEX SQL Workshop interface. The top navigation bar includes 'APEX', 'App Builder', 'SQL Workshop', 'Team Development', and 'Gallery'. A search bar and user profile 'Jia Yu Ong' are on the right. The 'SQL Commands' tab is active, showing a query: `SELECT ctr_number, first_name, last_name, email, phone_number FROM customers;`. The 'Results' tab displays a table with 5 rows. The footer shows '5 rows returned in 0.04 seconds' and a 'Download' button.

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

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

APEX App Builder SQL Workshop Team Development Gallery

Search

JO Jia Yu Ong database\_bioinform...

SQL Commands Schema WKSP\_DATABASEBIOINFOR

Language SQL Rows 10 Clear Command Find Tables Save Run

1 SELECT name, number\_of\_players FROM teams;

Results Explain Describe Saved SQL History

NAME	NUMBER_OF_PLAYERS
Rockets	25
Celtics	42
Rovers	8

3 rows returned in 0.03 seconds Download

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

APEX App Builder SQL Workshop Team Development Gallery

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SQL Commands Schema WKSP\_DATABASEBIOINFOR

Language SQL Rows 10 Clear Command Find Tables Save Run

1 SELECT name, description, category FROM 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 quality baseball bat	equipment

5 rows returned in 0.03 seconds Download

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