

## 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.

#### **Section 6 Lesson 7 Exercise 1: Restricting Data Using WHERE**

##### **Limit rows using WHERE (S6L7 Objective 1)**

In this exercise you will refine the data that is returned in your query by adding a WHERE clause to your SELECT statement.

### **Part 1: Using the WHERE Clause.**

1. Using the unique customer number in the where clause display all columns for Maria Galant.
2. Display the first name, last name and customer number for all customers who have a current balance of greater than 100. Use an appropriate alias for your column headings.
3. Display the order id, date and time of all orders that were placed before the 28<sup>th</sup> of May 2019. Use an appropriate alias for your column headings.

### **Part 2: Range Conditions: BETWEEN Operator**

1. Display the inventory id, cost and number of units using appropriate aliases for all items that have a trade cost of between 3.00 and 15.00.

### **Part 3: Membership Conditions: IN Operator**

1. Display the inventory id, cost and number of units using appropriate aliases for all items that have 50, 100, 150 or 200 units in stock.

### **Part 4: Membership Conditions: NOT IN Operator**

1. Display the inventory id, cost and number of units using appropriate aliases for all items that do not have 50, 100, 150 or 200 units in stock.

### **Part 5: Pattern Matching: LIKE Operator**

1. Display item number and name of all items that have a name that begins with g. Use an appropriate alias for your column headings.

### **Part 6 : Pattern Matching: Combining Wildcard Characters with the LIKE Operator**

1. Display item number and name of all items that have a name that contain a lowercase o. Use an appropriate alias for your column headings.

## Part 1

1. SELECT \*

FROM customers

WHERE CTR\_NUMBER = 'c01986';

CTR_NUMBER	EMAIL	FIRST_NAME	LAST_NAME	PHONE_NUMBER	CURRENT_BALANCE	SRE_ID	TEM_ID	LOYALTY_CARD_NUMBER
1 c01986	margal87@delphiview.com	Maria	Galant	01442736589	125.65	sr03	t003	(null)

2. SELECT ctr\_number "Customer Number", email, first\_name "First Name", last\_name "Last Name", phone\_number "Phone Number", current\_balance "Current Balance"  
 FROM customers,  
 WHERE current\_balance > 100

Customer Number	EMAIL	First Name	Last Name	Phone Number	Current Balance
1 c00001	bob.thornberry@heatmail.com	Robert	Thornberry	01234567898	150
2 c00101	unknown@here.com	John	Doe	03216547808	987.5
3 c01986	margal87@delphiview.com	Maria	Galant	01442736589	125.65

3. SELECT ID "Unique Num", ODR\_DATE "Tarikh",  
 ODR\_TIME "Masa"  
 FROM ORDERS

WHERE ODR\_DATE < '28-MAY-2019';

Unique Num	Tarikh	Masa
1 or0101250	17-APR-17	17-APR-17
2 or0101350	24-MAY-17	24-MAY-17

## Part 2

1. SELECT ID "Nombor Magic", Cost "Harga",  
Units "Bilangan Unit"  
FROM Inventory\_list  
WHERE cost BETWEEN 3.00 AND 15.00

NOMBOR MAGIC	HARGA	BILANGAN UNIT
1 il010230125	7.99	250
2 il010230126	5.24	87

## Part 3

1. SELECT ID "Nombor Magic", Cost "Harga",  
Units "Bilangan Unit"  
FROM Inventory\_list  
WHERE UNITS IN (50, 100, 150, 200);

NOMBOR MAGIC	HARGA	BILANGAN UNIT
1 il010230124	2.5	100

#### Part 4

```
SELECT ID "Number Magic", Cost "Harga",  
UNITS "Bilangan Unit"  
FROM Inventory_list  
WHERE UNITS NOT IN (50, 100, 150, 200);
```

NOMBOR MAGIC	HARGA	BILANGAN UNIT
1 i1010230125	7.99	250
2 i1010230126	5.24	87
3 i1010230127	18.95	65
4 i1010230128	97.46	8

#### Part 5

```
SELECT ITM_NUMBER "Number", NAME "Nama"  
FROM Items  
WHERE NAME LIKE 'g%';
```

Number	Name
1 im01101044	gloves
2 im01101047	game top

## Part 6

```
SELECT ITM_NUMBER "Number", NAME "NAME"  
FROM Items  
WHERE NAME LIKE '%o%';
```

Number	Name
1	im01101044 gloves
2	im01101046 socks
3	im01101047 game top