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 28th 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 first_name "First Name", last_name "Last Name", ctr_number "Customer Number"
   FROM customers
   WHERE current_balance > 100;

	First Name	Last Name	Customer Number
1	Robert	Thornberry	c00001
2	John	Doe	c00101
3	Maria	Galant	c01986

3 SELECT id "Order id", odr_date "Date", odr_time "Time"
   FROM orders
   WHERE odr_date < TO_DATE ('2019-05-28','YYYY-MM-DD');

	Order ID	Date	Time
1	or0101250	17/04/2017	17/04/2017
2	or0101350	24/05/2017	24/05/2017
3	or0101425	28/05/2017	28/05/2017
4	or0101681	02/06/2017	02/06/2017
5	or0101750	18/06/2017	18/06/2017

Part 2

1. SELECT id "Inventory ID", cost "Cost", units "Number of Units"
   FROM inventory_lists
   WHERE cost BETWEEN 3.00 AND 15.00;

	Inventory ID	Cost	Number of Units
1	il010230125	7.99	250
2	il010230126	5.24	87

Part 3

1. SELECT id "Inventory ID", cost "Cost", units "Number of Units"
   FROM inventory_lists
   WHERE units IN (50,100,150,200);

	Inventory ID	Cost	Number of Units
1	il010230124	2.5	100

Part 4

1. SELECT id "Inventory ID", cost "Cost", units "Number of Units"
   FROM inventory_lists
   WHERE units NOT IN (50,100,150,200);

	Inventory ID	Cost	Number of Units
1	il1010230125	7.99	250
2	il1010230126	5.24	87
3	il1010230127	18.95	65
4	il1010230128	97.46	8

Part 5

1. SELECT itm_number "Item Number", name "Item Name"
   FROM items
   WHERE name like '%g%'

	Item Number	Item Name
1	im01101044	gloves
2	im01101047	game top

Part 6

1. SELECT itm_number "Item Number", name "Item Name"
   FROM items
   WHERE name like '%o%'