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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.

Section 6 Lesson 4 Exercise 1: Data Manipulation Language

Use DML operations to manage database tables (S6L4 Objective 2)

In this exercise you will populate and work with the data that is stored in the database system tables.

Part 1: Running a script to populate the tables.

You have to consider the order of the tables when populating them. A table that has a foreign key field cannot be populated before the related table with the primary key.

- 1. Use the table mapping document and list the order that you would use to populate the tables.
- 2. Open the "sports data.sql" and look at the order the data is being added there, does your list match? This file can be found in the Section 6 Lesson 4 interaction (sports data.zip) and must first be extracted.
- 3. Run the "sports data.sql" script in APEX to populate your tables
- 4. Check that no errors occurred when you ran the script.

Part 2- Inserting rows to the system

1. Add a new team to the system

id	name		discount
t004	Jets	10	5

2. Add a new Customer with the following details to the system

ctr number	email	First name	Last name	Phone number	Current balance	Loyalty card number	tem id	sre id
c02001	brianrog@hoote ch.com	Brian	Rogers	01654564898	-5	lc4587		

3. This information violates the check constraint that the current balance must not be less than zero. Change the current balance to 50 and rerun the query.

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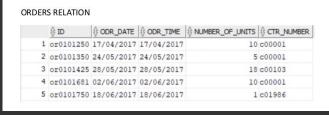


CUSTOMER_ADDRESS RELATION | ↑ ID | ↑ ADDRESS_LINE_1 | ↑ ADDRESS_LINE_2 | ↑ CITY | ↑ ZIP_CODE | ↑ CTR_NUMBER | | 1 ca0101 83 Barrhill Drive (null) Liverpool LP79HJK c00001 | | 2 ca0102 17 Gartsquare Road Starford Liverpool LP89JHK c00001 | | 3 ca0103 54 Ropehill Crescent Georgetown Star ST45AGV c00101 | | 4 ca0104 36 Watercress Lane (null) Jump JP23YTH c01986 | | 5 ca0105 63 Acacia Drive Skins Liverpool LP83JHR c00001

/EN	TORY_LIST REL	ATION	
	∯ ID	♦ COST	♦ UNITS
1	i1010230124	2.5	100
2	i1010230125	7.99	250
3	i1010230126	5.24	87
4	i1010230127	18.95	65
5	i1010230128	97.46	8

		♦ NAME	♦ DESCRIPTION	♦ CATEGORY	♦ COLOR	Size	♦ ILT_ID
1	im01101044	gloves	catcher mitt	clothing	brown	m	i1010230124
2	im01101045	under shirt	top worn under the game top	clothing	white	3	i1010230125
3	im01101046	socks	team socks with emblem	clothing	range	1	11010230126
4	im01101047	game top	team shirt with emblem	clothing	range	m	i1010230127
5	im01101048	premium bat	high quaity basball bat	equipment	(null)	(null)	i1010230128

	QUANTITY_ORDERED	QUANTITY_SHIPPED		ODR_ID
1	5	5	im01101044	or0101250
2	5	5	im01101046	or0101250
3	5	5	im01101044	or0101350
4	18	18	im01101047	or0101425
5	10	10	im01101047	or0101681
6	1	1	im01101048	or0101750



	START_DATE	\$ START_TIME	♦ PRICE		♦ END_TIME	♦ ITM_NUMBER
1	17/06/2017	17/06/2016	4.99	(null)	(null)	im01101044
2	25/11/2016	25/11/2016	14.99	25/01/2017	25/01/2017	im01101045
3	25/01/2017	25/01/2017	8.99	25/01/2017	25/01/2017	im01101045
4	26/01/2017	26/01/2017	15.99	(null)	(null)	im01101045
5	12/02/2017	12/02/2017	7.99	(null)	(null)	im01101046
6	25/04/2017	25/04/2017	24.99	(null)	(null)	im01101047
7	31/05/2017	31/05/2017	149	(null)	(null)	im01101048

TEAMS RELATION

	∯ ID	♦ NAME	NUMBER_OF_PLAYERS	♦ DISCOUNT
1	t001	Rockets	25	10
2	t002	Celtics	42	20
3	t003	Rovers	8	(null)

Part 2- Inserting rows to the system

1. Add a new team to the system

ic	d name		Number_of_players	discount
	t004	Jets	10	5

2 Add a new Customer with the following details to the system

INSERT INTO TEAMS VALUES ('toom', ' JETS', 10,5)

	∯ ID	NAME	NUMBER_OF_PLAYERS	
1	t001	Rockets	25	10
2	t002	Celtics	42	20
3	t003	Rovers	8	(null)
4	t004	Jets	10	5

2. Add a new Customer with the following details to the system

ctr number	email	First name	Last name	Phone number	Current balance	Loyalty card number	tem id	sre id
c02001	brianrog@hoote ch.com	Brian	Rogers	01654564898	-5	lc4587		

INISEPT INTO CUSTOMERS (ctr. number, email, first_name, last_name, phone_number, loyalty_card_number)
VMCUES ("tood", "brian rog @ hootich.com", "Brian", "Rogers", "olbs4564848", "164587")

Error starting at line : l in command INSERI INTO CUSTOMERS(ctr_number, email, first_name, last_name, phone_number, current_balance, loyalty_card_n
VALUES ('t004', 'brianrog@hootech.com', 'Brian', 'Rogers', '01654564898', -5, 'lo4587')
Error report ORA-02290: check constraint (SYSTEM.CURRENT_BALANCE_MIN) violated

This information violates the check constraint that the current balance must not be less than zero. Change the current balance to 50 and rerun the query.

INISEPT INTO CUSTOMERS (ctr_number, email, first_name, last_name, phone_number, loyalty_card_number)
VALUES ("tood", brian rog @ hootich.com", "Brian", "Rogers", "Olbs4564848", "124587")

 $INSERT\ INTO\ CUSTOMERS(ctr_number, email, first_name, last_name, phone_number, loyalty_card_number$

VALUES ('t004', 'brianrog@hootech.com', 'Brian', 'Rogers', '01654564898', 'lc4587')

	⊕ CTR_NUMBER	() EMAIL	FIRST_NAME	& LAST_NAME	PHONE_NUMBER	CURRENT_BALANCE	SRE_ID	♦ TEM_ID	& LOYALTY_CA
1	c00001	bob.thornberry@heatmail.com	Robert	Thornberry	01234567898	150	sr01	t001	(null)
2	c00012	Jjones@freemail.com	Jennifer	Jones	01505214598	0	(null)	(null)	1c1015
3	c00101	unknown@here.com	John	Doe	03216547808	987.5	sr01	t002	(null)
4	c00103	MurciaA@globaltech.com	Andrew	Murcia	07715246890	85	(null)	(null)	1c2341
5	c01986	margal87@delphiview.com	Maria	Galant	01442736589	125.65	sr03	t003	(null)
6	t004	brianrog@hootech.com	Brian	Rogers	01654564898	50	(null)	(null)	1c4587