

ITCS393 Database Systems Lab

Lab12 Exercise

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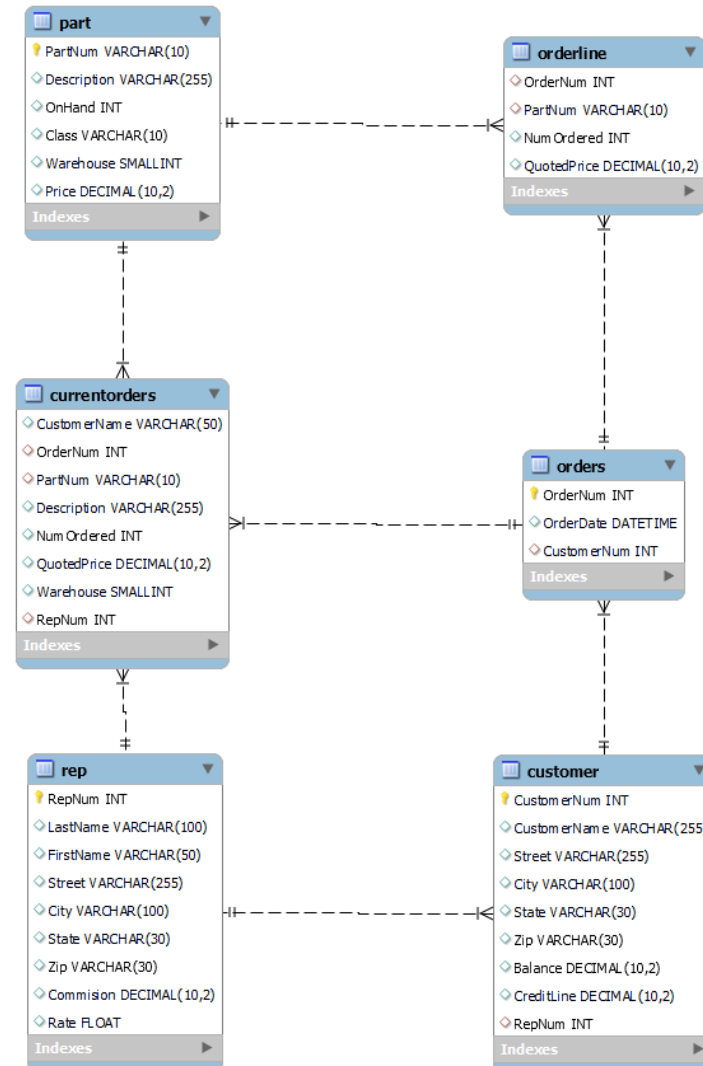
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Lab12 Exercise-use PremierProduct Database



Lab12 Exercise (cont.)

- Instructions

1. Write the SQL commands to answer all questions
2. Save your final SQL script rename it as "**L12grYidxx88xxx.sql**".
 - Y is your study Group
 - xx88xxx is your student ID
3. Submit the SQL file on Mycourses.

Lab12 Exercise (cont.)

Q1. Create a stored procedure, named "**sp_Customer_Order**" that takes as inputs two parameters: an *order date (@date)* and a *minimum amount of orders (@orderCount)*.

- The procedure will give a list of orders (i.e., *OrderNum*) that are posted on the given *order date* and whose *total amount* is greater than or equal to the minimum amount of orders; for each order, show the *order number*, the *order date*, the *total amount of orders*, the *total prices* and the customers (i.e., *CustomerNum*) who posted the orders on the given order date.

Lab12 Exercise (cont.)

- A sample invocation of the procedure and its result is as follows:

```
CALL sp_Customer_Order('2010-10-21',1)
```

	OrderNum	OrderDate	TotalOrders	TotalPrice	CustomerNum
▶	21613	2010-10-21 00:00:00	4	1319.80	408
	21614	2010-10-21 00:00:00	2	1190.00	282

Lab12 Exercise (cont.)

Q2. Create a stored procedure named "sp_Orders_By_Customer " that takes a customer number (@customerNum) as input and returns a list of orders for that customer.

- For each order, the stored procedure should return the order number, order date, total price of the order, and the number of parts ordered.

Lab12 Exercise (cont.)

- A sample invocation of the procedure and its result is as follows:

```
CALL sp_Orders_By_Customer(148);
```

	OrderNum	OrderDate	TotalPartsOrdered	TotalPrice
▶	21608	2010-10-20 00:00:00	11	241.45
	21619	2010-10-23 00:00:00	1	495.00

Lab12 Exercise (cont.)

Q3. Write a MySQL function named “`update_rep`” that takes two arguments: `old_rep_num` and `new_rep_num`. The function should update the `Rep` table to change the `RepNum` value from `old_rep_num` to `new_rep_num`. It should also update the `Customer` and `CurrentOrders` tables to reflect the change. If `old_rep_num` does not exist in the `Rep` table, the function should return false (0). Otherwise, it should return true (1).

Assume that the `SQL_SAFE_UPDATES` variable is enabled. Your function should disable it temporarily to allow the `UPDATE` queries to be executed.

Lab12 Exercise (cont.)

- A sample invocation of the procedure and its result is as follows:

```
SELECT update_rep_num(20, 999);
```

	RepNum	LastName	FirstName	Street	City	State	Zip	Commision	Rate
▶	35	Hull	Richard	532 Jackson	Sheldon	FL	33553	39216.00	0.07
	65	Perez	Juan	1626 Taylor	Fillmore	FL	33336	23487.00	0.05
	999	Kaiser	Valerie	624 Randall	Grove	FL	33321	20542.50	0.05

	CustomerName	OrderNum	PartNum	Description	NumOrdered	QuotedPrice	Warehouse	RepNum
▶	Al's Appliance and Sport	21608	AT94	Iron	11	21.95	3	999
	Al's Appliance and Sport	21619	DR93	Gas Range	1	495.00	2	999

	CustomerNum	CustomerName	Street	City	State	Zip	Balance	CreditLine	RepNum
▶	148	Al's Appliance and Sport	2837 Greenway	Fillmore	FL	33363	6550.00	7500.00	999
	282	Brookings Direct	3827 Devon	Grove	FL	33321	431.50	10000.00	35
	356	Ferguson's	382 Wildwood	Northfield	FL	33146	5785.00	7500.00	65
	408	The Everything Shop	1828 Raven	Crystal	FL	33503	5285.25	5000.00	35
	462	Bargains Galore	3829 Central	Grove	FL	33321	3412.00	10000.00	65
	524	Kline's	838 Ridgeland	Fillmore	FL	33363	12762.00	15000.00	999
	608	Johnson's Department Store	372 Oxford	Sheldon	FL	33553	2106.00	10000.00	65
	687	Lee's Sport and Appliance	282 Evergreen	Altonville	FL	32543	2851.00	5000.00	35
	725	Deerfield's Four Seasons	282 Columbia	Sheldon	FL	33553	248.00	7500.00	35
	842	All Season	28 Lakeview	Grove	FL	33321	8221.00	7500.00	999

	update_rep_num(20, 999)
▶	1