

Quiz 2 Review – eStore Database

Part A – Constraints

Add the following constraints to the database table definitions

Table	Column(s)	Default	Check
Supplier	Province Postal Code	AB	Valid province & territory CHAR(6) postal code
Product	OrderCost SellingPrice QuantityOnHand ReorderLevel OnOrder Table	0	>0 >0 >=0 >0 >=0 SellingPrice >= OrderCost
Customer	Phone Province Postal Code		##### Valid province & territory CHAR(6) postal code
Employee	WorkPhone Province Postal Code HireDate		##### Valid province & territory CHAR(6) postal code <= current date
SalesOrder	OrderDate	Current date	<= current date
SalesOrderDetail	Quantity		>0
PurchaseOrder	OrderDate	Current date	<= current date
PurchaseOrderDetail	OrderQuantity		>0

Part B – ALTER TABLE

Assuming there is already data in the tables, alter the following tables

Table	Column(s)	Constraints
Customer	Email Birthdate	CK valid email address <= current date
Employee	Email HomePhone ReleaseDate	CK valid email address ##### >=HireDate
Supplier	Phone	#####
PurchaseOrder	ReceivedDate	>=OrderDate

Part C – Queries

- Select the contact (as one column) first and last name and phone number for the Supplier with the SupplierID of 202.

Results:

Supplier Contact	Phone
Sasha Macgillvary	7802231875

2. For all customers, select the first name, last name, and the number of orders they have made.

Results:

FirstName	LastName	Number of Orders
Ally	Ely	0
Amber	Hutchison	0
Anthony	Hazlett	1
Arielle	Mosley	0
Cameron	Zornes	0
Cesar	Langford	0
Colleen	Herbin	0
Craig	Hufford	0
Dabney	Player	0
Del	Donelow	0
Elizabeth	Mulhollen	0
Flo	Strand	0
Jenna	Walls	0
Jennifer	Algere	0
Kylie	Cone	0
Lahoma	Ayres	0
Laurel	Hedge	0
Lincoln	Hagerty	0
Lorraine	Arndt	0
Michelle	Sharon	0
Ming Yue	Li	0
Mouth	Luther	0
Nancy	Oleary	0
Olivia	Willie	0
Paige	Bain	1
Ruby	Natkin	0
Samuel	Surkont	0
Tao	Ren	0
Trista	Gandy	1
Victoria	Tompkins	0
Wei	Miao	1
Willis	Dregots	1

3. Select all the customer and employee names who do not live in Edmonton. Order the results by the names in descending order.

Results:

128	Zornes Cameron
130	Willie Olivia
125	Walls Jenna
1008	Tse Edmundo
127	Sharon Michelle
120	Ren Tao
104	Miao Wei
101	Luther Mouth
124	Li Ming Yue
131	Hagerty Lincoln
100	Gandy Trista
1009	Difronzo Edra

4. Create a list of all outstanding (not yet received) purchase orders. Include order date, supplier name, and employee name.

Results:

Order #	Ordered On	Ordered From	Ordered By
505	2021-03-09 08:31:27.000	Organic Meats	Ceats,Bob
506	2021-03-09 11:11:11.000	Prarie Gold	Rhein,Edie
507	2021-03-09 13:45:13.000	Sweetees Sweets	Makkers,Mary
508	2021-03-10 09:29:37.000	General Store	Rhein,Edie
509	2021-03-21 15:21:46.000	Household Supplies	Ceats,Bob
510	2021-03-22 10:45:01.000	Totally Clean	Rhein,Edie
511	2021-04-01 09:19:54.000	We R Nutty	Ceats,Bob
512	2021-04-01 16:28:15.000	OK Growers	Ceats,Bob

5. Create a list of all products sold and ordered. Sort by the product id.

Results:

ProductID	Event	#
304	Order: Pepsi	500
305	Order: Molson Canadian	512
311	Order: Oreo Cookies	512
312	Order: Joy	501
314	Order: White Bread	502
315	Order: Chicken Wings	502
320	Order: Mango	502
321	Order: Apple	503
331	Order: Canola Oil	504
333	Order: Grape Juice	505
334	Order: Coke Zero	505
334	Sale: Coke Zero	401
338	Sale: Pork Sausage	402
338	Order: Pork Sausage	506
340	Order: Dove Choc Bar	506
340	Sale: Dove Choc Bar	404
341	Sale: Canola Oil	401
342	Sale: Tide	402
342	Order: Tide	507
344	Sale: Wok	400
347	Sale: Yogurt Candy	404
349	Order: Budweiser	508
350	Order: Apple Juice	508
351	Order: Diet Coke	508
351	Sale: Diet Coke	404
354	Order: Chicken Burger	508
357	Sale: Pepper	403
359	Sale: Doritos	403
359	Order: Doritos	510
360	Sale: Rice Cooker	403
361	Sale: Dove Choc Bar	403
362	Sale: Cracker Jax	403
363	Sale: Chopsticks	402
364	Sale: White Bread	400
365	Sale: Pork Sausage	400
365	Order: Pork Sausage	511
367	Sale: Sprite	404
369	Order: Banana	511
372	Order: Windex	509
373	Sale: Cheezies	404

6. Count the number of products in categories that have the word 'product' in the description.

Results	
CategoryName	Number of Products
Bread	7
Cleaners	7
Meat	7

7. Select the highest, lowest, and average selling price of all the products.

Results:		
Max Price	Min Price	Avg Price
36.95	1.15	5.589090

8. That was too easy. Now count how many products have a selling price above the average selling price.

Results:	
ProductName	SellingPrice
Kitchen Utensils	12.25
Joy	6.15
Beef Sausage	6.25
Carrot	13.25
Hot Dog Buns	6.70
Rice Cooker	24.95
Canola Oil	9.75
Crown Royal	35.55
Labat's Blue	24.00
Tide	7.15
Wok	6.25
Pineapple	6.25
Hamburger Buns	6.75
Dawn	6.10
Rice Cooker	36.95
Chopsticks	7.35
Windex	6.50
Knife Set	32.50

9. Select the Sales orders that have more than 2 products sold.

Results:		
OrderNumber	OrderDate	Products Sold
400	2021-04-01 14:40:02.000	3
402	2021-04-01 18:18:21.000	3
403	2021-04-02 09:51:17.000	5
404	2021-04-03 10:13:23.000	5

10. Select all the customers that have a birthday this month or the upcoming month (do not hard code the month).

Results:		
Customer	Email	Birthday
Paige Bain	paigeb@outlook.com	1970-11-20
Ruby Natkin	rubyn@outlook.com	1969-12-02

Part D – Views

1. Create a view called CustomerOrderCount that contains the full customer's name and the count of their orders.

- Using the CustomerOrderCount view, select the customers that have placed 2 or more orders.

Results:
0 records returned

Part E – DML

Use only the information you are given, do not hard-code values unless given

- Insert a new SalesOrder with the following information:
 - CustomerID: 100
 - OrderDate: current date
 - EmployeeID: 1005
- Insert a SalesOrderDetail records for the SalesOrder created in question 1 above with the following information:
 - ProductID: 307 Quantity: 1
 - ProductID: 300 Quantity: 1
- Rerun the CustomerOrderCount view question #2 again.

Results:

CustomerID	Customer	# of Orders
100	Trista Gandy	2

- Increase the selling price by 5% and order cost by 4% for all products in the Alcohol category (do not hard code the categoryID).

Before Update:

ProductID	SellingPrice	OrderCost
305	5.00	2.25
317	5.00	2.15
332	35.55	12.95
337	24.00	10.10
349	4.95	2.10
366	2.00	1.15
370	2.00	1.10

After Update:

ProductID	SellingPrice	OrderCost
305	5.25	2.34
317	5.25	2.24
332	37.33	13.47
337	25.20	10.50
349	5.20	2.18
366	2.10	1.20
370	2.10	1.14

- Delete all the customers that have never placed a sales order.

After Delete select all the customers – should have only 5 now:
CustomerID
100, 102, 104, 109, and 110

eStore ERD

