

2019 Sept Prelim Prac

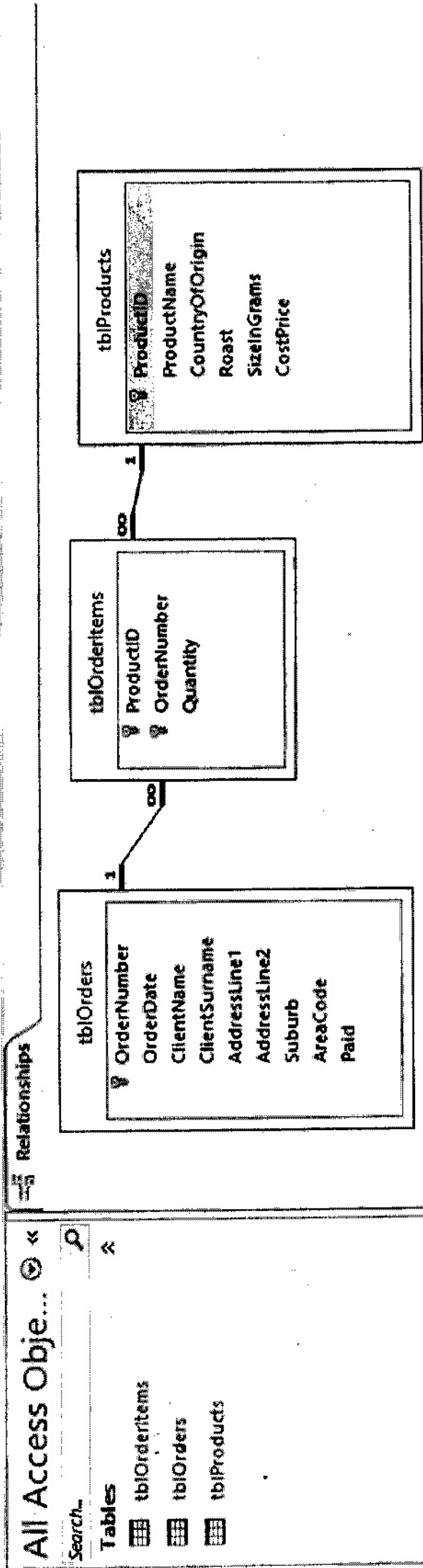
RELATIONSHIP TOOLS DESIGN

FILE HOME CREATE EXTERNAL DATA DATABASE TOOLS

Hide Table X Close  
Direct Relationships  
All Relationships

Show Table  
Relationships

Tools  
All Access Objects  
Relationships



Describing the join over 3 tables -  
tblOrders.OrderNumber = tblOrderItems.OrderNumber AND  
tblOrderItems.ProductID = tblProducts.ProductID

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SQL MEMO

Name:		
1.1	<p>SELECT * FROM tblOrders ✓ WHERE Paid ✓ = FALSE ✓</p> <p><b>ALTERNATIVES:</b> WHERE Paid = 0 WHERE Paid = No WHERE NOT Paid</p>	3
1.2	<p>UPDATE tblProducts ✓ SET CostPrice = 40 ✓ WHERE ProductID = 10 ✓</p> <p><b>ACCEPT:</b> WHERE ProductName = "Purple" AND SizeInGrams = 250</p>	3
1.3	<p>SELECT CientName, ProductName, Roast, SizeInGrams/1000 ✓ AS SizeInKg, CostPrice, CostPrice * 2 ✓ AS SellingPrice ✓ (this mark includes the other alias, "AS SizeInKg") FROM tblOrderItems, tblOrder, tblProducts ✓ WHERE tblOrderItems.ProductID = tblProducts.ProductID ✓ AND tblOrderItems.OrderNumber = tblOrder.OrderNumber ✓ AND tblOrder.OrderNumber = "2019_02121" ✓</p> <p><b>ALTERNATIVE:</b> SELECT CientName, ProductName, Roast, SizeInGrams/1000 ✓ AS SizeInKg, CostPrice, CostPrice * 2 ✓ AS SellingPrice ✓ (this mark includes the other alias, "AS SizeInKg") FROM tblProducts INNER JOIN ✓ (tblOrder INNER JOIN tblOrderItems ON tblOrderItems.OrderNumber = tblOrder.OrderNumber) ✓ ON tblOrderItems.ProductID = tblProducts.ProductID ✓ AND tblOrder.OrderNumber = "2019_02121" ✓</p>	7

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1.4	SELECT SizeInGrams, AVG(CostPrice) ✓ AS [Average Cost Price] ✓ FROM tblProducts GROUP BY SizeInGrams ✓ HAVING Avg(CostPrice) ✓ > 100 ✓	5
1.5	SELECT OrderDate, ClientName, ClientSurname, Paid ✓ FROM tblOrder WHERE MONTH(OrderDate) = 8 ✓ AND YEAR(OrderDate) = 2019 ✓	3
1.6	SELECT LEFT(ProductName,1) ✓ & LEFT(CountryOfOrigin,1) ✓ & INT✓ (RND(ProductID) ✓ (ProductID must be included) * 50+ 1 ✓) AS ProductCode, ProductName, CountryOfOrigin, CostPrice ✓ FROM tblProducts  -1 if concatenation done with + instead of & and the rest is correct. Do not double penalise, i.e. Do not penalise here if marks on line 2 and 3 are not awarded.	6
1.7	SELECT tblOrder.OrderNumber, ClientName, Paid ✓ FROM tblOrder ✓ LEFT JOIN tblOrderItems ✓ ON tblOrderItems.OrderNumber = tblOrder.OrderNumber ✓ WHERE tblOrderItems.OrderNumber IS NULL ✓ ORDER BY ClientName ✓  <b>ALTERNATIVE:</b> SELECT OrderNumber, ClientName, Paid ✓ FROM tblOrder ✓ WHERE OrderNumber ✓ NOT IN ✓ (SELECT OrderNumber FROM tblOrderItems) ✓ ORDER BY ClientName ✓	6

1.8	<p>SELECT * FROM tblProducts  WHERE CountryOfOrigin ✓  IN ("Ethiopia","Kenya","Rwanda") ✓</p> <p><b>NOTE:</b> As in 2018 Finals – Do not award last mark if multiple OR's are used. It is specified in the paper that this query must use the most effective way to filter data.</p>	2
1.9	<p>INSERT INTO tblOrderItems ✓  ( ProductID, OrderNumber, Quantity ) ✓  SELECT ProductID, "2019_02125" ✓ , Quantity ✓ (this mark includes the ProductID)  FROM tblOrderItems  WHERE OrderNumber = "2019_02116" ✓</p>	5
<b>Total:</b>		<b>40</b>