

ITCS393 Database Systems Lab

Lab08: Nested Query

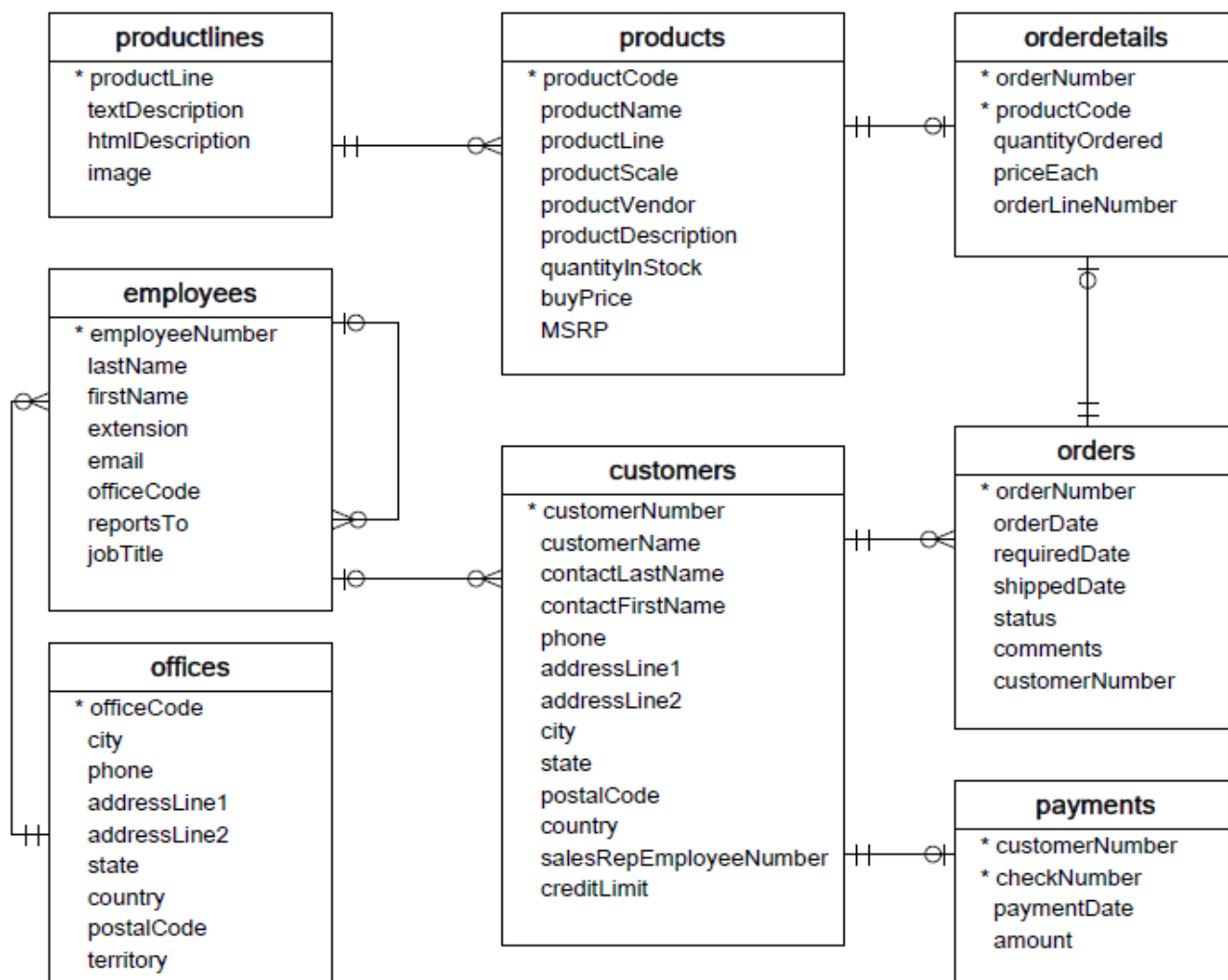
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Database: classicmodels



- **Customers:** stores customer's data.
- **Products:** stores a list of scale model cars.
- **ProductLines:** stores a list of product line categories.
- **Orders:** stores sales orders placed by customers.
- **OrderDetails:** stores sales order line items for each sales order.
- **Payments:** stores payments made by customers based on their accounts.
- **Employees:** stores all employee information as well as the organization structure such as who reports to whom.
- **Offices:** stores sales office data.

Lab 8 Instruction

Q1: List the product code and product name of the product line "Planes" and their total quantity of ordered **using subquery without JOIN**

Expected: 3 columns, 12 rows

productCode	productName	TotalQuantityOrdered
S700_4002	American Airlines: MD-11S	1085
S24_3949	Corsair F4U (Bird Cage)	1051
S700_3167	F/A 18 Hornet 1/72	1047
S18_1662	1980s Black Hawk Helicopter	1040
S24_4278	1900s Vintage Tri-Plane	1009
S700_2466	America West Airlines B757-200	984
S700_2834	ATA: B757-300	973
S24_1785	1928 British Royal Navy Airplane	972
S72_1253	Boeing X-32A JSF	960
S24_2841	1900s Vintage Bi-Plane	940
S18_2581	P-51-D Mustang	917
S700_1691	American Airlines: B767-300	894

Lab 8 Instruction

Q2: List the customer info.
(number, name, and number
of times they made the
orders) who order more
frequent than the average.

Expected: 3 columns, 24 rows

Hint: On average, the number
of times the customers ordered
is 3.3265.

customerNumber	customerName	TotalNumOrder
141	Euro+ Shopping Channel	26
124	Mini Gifts Distributors Ltd.	17
114	Australian Collectors, Co.	5
145	Danish Wholesale Imports	5
148	Dragon Souvenirs, Ltd.	5
323	Down Under Souvenirs, Inc	5
353	Reims Collectables	5
119	La Rochelle Gifts	4
121	Baane Mini Imports	4
128	Blauer See Auto, Co.	4
131	Land of Toys Inc.	4
144	Volvo Model Replicas, Co	4
151	Muscle Machine Inc	4
157	Diecast Classics Inc.	4
161	Technics Stores Inc.	4
166	Handji Gifts& Co	4
276	Anna's Decorations, Ltd	4
282	Souvenirs And Things Co.	4
321	Corporate Gift Ideas Co.	4
381	Royale Belge	4
382	Salzburg Collectables	4
398	Tokyo Collectables, Ltd	4
450	The Sharp Gifts Warehouse	4
496	Kelly's Gift Shop	4

Lab 8 Instruction

Q3: If the company wants to have another new office to serve the customers, what country should be the next destination?

Hint: The location of the new office should be defined based on the highest numbers of customers of the country and should not duplicate with the current location

Lab 8 Instruction

Q4: Using EXISTS, find the list of the employees, who work at the offices in the territory "EMEA", and their total number of customers if any

Expected: 3 columns, 7 rows

Name	jobTitle	TotalNumCustomers
Gerard Bondur	Sale Manager (EMEA)	0
Loui Bondur	Sales Rep	6
Gerard Hernandez	Sales Rep	7
Pamela Castillo	Sales Rep	10
Martin Gerard	Sales Rep	6
Larry Bott	Sales Rep	8
Barry Jones	Sales Rep	9

Lab 8 Instruction

Q5: Modify Q4 to show the number of people each the same 'EMEA' employees needed to take care of

Hint: For all employees who have customers, calculate the total number of customers, and for ones who do not have customers, show the total number of employees under his/her supervision

Expected: 3 columns, 7 rows

Name	jobTitle	TotalNumPeople
Gerard Bondur	Sale Manager (EMEA)	6
Loui Bondur	Sales Rep	6
Gerard Hernandez	Sales Rep	7
Pamela Castillo	Sales Rep	10
Martin Gerard	Sales Rep	6
Larry Bott	Sales Rep	8
Barry Jones	Sales Rep	9

Lab 8 Submission

- Put your name and ID in the comment
- **Submit your SQL file in MyCourses,** renamed as
L08grYidxx88xxx.sql
 - Y is your study Group
 - xx88xxx is your student ID