

# Exercises

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## Pre-requisites

1. Create a database in SQL Server and run the SQL file Task2 provided in the same directory as this document

Now the Database has 6 tables (Orders, OrderDetails, Products, Suppliers, Shippers and Employee)

## 'Joins'

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1. Get the firstname and lastname of the employees who placed orders between 15th August,1996 and 15th August,1997
2. Get the distinct EmployeeIDs who placed orders before 16th October,1996
3. How many products were ordered in total by all employees between 13th of January,1997 and 16th of April,1997.
4. What is the total quantity of products for which Anne Dodsworth placed orders between 13th of January,1997 and 16th of April,1997.
5. How many orders have been placed in total by Robert King
6. How many products have been ordered by Robert King between 15th August,1996 and 15th August,1997
7. I want to make a phone call to the employees to wish them on the occasion of Christmas who placed orders between 13th of January,1997 and 16th of April,1997. I want the EmployeeID, Employee Full Name, HomePhone Number.
8. Which product received the most orders. Get the product's ID and Name and number of orders it received.
9. Which are the least shipped products. List only the top 5 from your list.
10. What is the total price that is to be paid by Laura Callahan for the order placed on 13th of January,1997
11. How many number of unique employees placed orders for Gorgonzola Telino or Gnocchi di nonna Alice or Raclette Courdavault or Camembert Pierrot in the month January,1997
12. What is the full name of the employees who ordered Tofu between 13th of January,1997 and 30th of January,1997
13. What is the age of the employees in days, months and years who placed orders during the month of August. Get employeeID and full name as well
14. Get all the shipper's name and the number of orders they shipped
15. Get the all shipper's name and the number of products they shipped.
16. Which shipper has bagged most orders. Get the shipper's id, name and the number of orders.
17. Which shipper supplied the most number of products between 10th August,1996 and 20th September,1998. Get the shipper's name and the number of products.
18. Which employee didn't order any product 4th of April 1997
19. How many products where shipped to Steven Buchanan
20. How many orders where shipped to Michael Suyama by Federal Shipping
21. How many orders are placed for the products supplied from UK and Germany
22. How much amount Exotic Liquids received due to the order placed for its products in the month of January,1997
23. In which days of January, 1997, the supplier Tokyo Traders haven't received any orders.

24. Which of the employees did not place any order for the products supplied by Ma Maison in the month of May
25. Which shipper shipped the least number of products for the month of September and October, 1997 combined.
26. What are the products that weren't shipped at all in the month of August, 1997
27. What are the products that weren't ordered by each of the employees. List each employee and the products that he didn't order.
28. Who is busiest shipper in the months of April, May and June during the year 1996 and 1997
29. Which country supplied the maximum products for all the employees in the year 1997
30. What is the average number of days taken by all shippers to ship the product after the order has been placed by the employees
31. Who is the quickest shipper of all.
32. Which order took the least number of shipping days. Get the orderid, employees full name, number of products, number of days took to ship and shipper company name.

## 'Unions'

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1. Which orders took the least number and maximum number of shipping days? Get the orderid, employees full name, number of products, number of days taken to ship the product and shipper company name. Use 1 and 2 in the final result set to distinguish the 2 orders.
2. Which is cheapest and the costliest of products purchased in the second week of October, 1997. Get the product ID, product Name and unit price. Use 1 and 2 in the final result set to distinguish the 2 products.

## 'Case'

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1. Find the distinct shippers who are to ship the orders placed by employees with IDs 1, 3, 5, 7 Show the shipper's name as "Express Speedy" if the shipper's ID is 2 and "United Package" if the shipper's ID is 3 and "Shipping Federal" if the shipper's ID is 1.