

# **MOST EXPENSIVE ORDER**

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Joins, Group By & Order By	A database with many tables has foreign keys that are designed to join the tables during SQL queries.		
	Find the most expensive order by joining the following tables:		
	Orders.OrderID → OrdersDishes.OrderID		
	OrdersDishes.DishID → Dishes.DishID		
LinkedIn Coding Challenge	Orders.CustomerID → Customers.CustomerID		
Intermediate			

#### **INPUT FORMAT**

The source tables are **ORDERS**, **ORDERSDISHES**, **DISHES** and **CUSTOMERS**. The tables are connected as follows:



### CONSTRAINTS

The DISHES table doesn't have a quantity column so each dish in an order has a quantity of one

## **CODE SOLUTION**

SELECT Orders.ORDERID, Customers.FIRSTNAME, Customers.LASTNAME, SUM(Dishes.PRICE) AS ORDERTOTAL FROM Orders JOIN OrdersDishes ON Orders.ORDERID = OrdersDishes.ORDERID JOIN Dishes ON OrdersDishes.DISHID = Dishes.DISHID JOIN Customers ON Orders.CUSTOMERID = Customers.CUSTOMERID GROUP BY Orders.ORDERID ORDER BY ORDERTOTAL DESC LIMIT 1

# **SOLUTION PROCESS**

- Select function: **ORDERS** is the primary table choice because it has the greatest many-to-one relationships connected to it. Join functions allow extraction of customer names and summed dish price data renamed as ORDERTOTAL.
- Group By: Results are grouped by first column in Select function to ensure that ORDERTOTAL is summed per each individual order
- Limit function: Only top result is requested. Couple with Order by function in descending order, the code produces such a result. Alternative, the same output is derived from using a SELECT TOP [#] function.

# OUTPUT

ORDERID	FIRSTNAME	LASTNAME	I	ORDERTOTAL	Ι
787	Yves	Dell'Abbate	I	58.95	