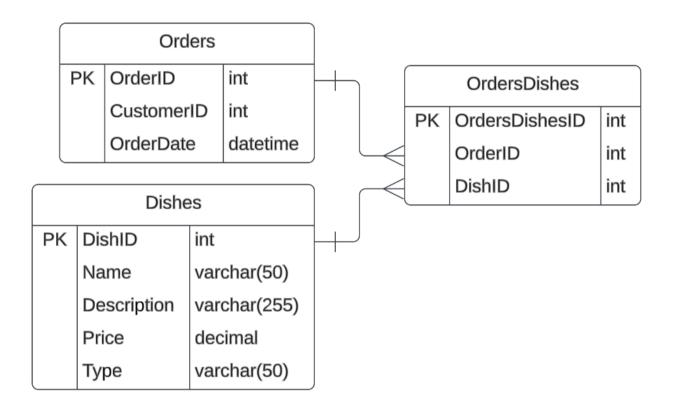


AVERAGE ORDER

NOV 2023	A database with many tables has foreign keys that are
Joins, Group By and Nested Select	designed to join the tables during SQL queries.
	Find the average of all orders by joining the following
	tables:
	Orders.OrderID → OrdersDishes.OrderID
	OrdersDishes.DishID → Dishes.DishID
LinkedIn Coding Challenge	There are two steps:
Intermediate	Find the sum of each order in the dataset
	2. Find the average of the order sums

INPUT FORMAT

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



CONSTRAINTS

The results should have a single row with one column:

ORDERAVERAGE: Average value of all orders

CODE SOLUTION

```
SELECT AVG(DISHPRICES) AS ORDERAVERAGE

FROM(

SELECT Orders.ORDERID, SUM(Dishes.PRICE) AS DISHPRICES

FROM Orders

JOIN OrdersDishes

ON OrdersDishes.ORDERID=Orders.ORDERID

JOIN Dishes

ON Dishes.DISHID=OrdersDishes.DISHID

GROUP BY Orders.ORDERID)
```

SOLUTION PROCESS

- Nested Select function: ORDERS is the primary table choice because it has the greatest oneto-many relationships connected to it. Join functions allow extraction of customer names and summed dish price data renamed as DISHPRICES.
- Group By: Results are grouped by first column in Select function to ensure that DISHPRICES is summed per each individual order, thus completing the first step
- Outer Select function: Table with Orders.OrderID and DISHPRICES columns is created by nested function. Select function extracts average of DISHPRICES values and renames column using 'As' syntax

OUTPUT ----| ORDERAVERAGE | -----| 32.66777 |