

1) What is a primary key in a table?

A column that uniquely identifies each row in a table.

2) Name the two types of table relationships in Power BI.

One-to-many and Many-to-one.

3) How do you create a relationship between two tables in Power BI?

Open Model view, then drag a field from one table onto the matching field in the other table.

4) What is a "star schema"?

A model where a central fact table is connected to multiple dimension tables like a star shape.

5) Which table is typically the fact table in a sales dataset?

The **Sales** table is typically the fact table.

6) Link Sales.csv to Customers.csv using CustomerID (one-to-many).

Create a relationship from Customers[CustomerID] (one) to Sales[CustomerID] (many) in Model view.

7) Why is ProductID in Sales.csv a foreign key?

Because it refers to the primary key of the Products table.

8) Fix a relationship error where ProductID has mismatched data types.

Change both columns to have the same data type (e.g. Whole Number) in Power Query or Model view.

9) Explain why a star schema improves performance.

It reduces complex joins and simplifies relationships, so Power BI can calculate faster.

11) Optimize a model with circular relationships — how would you resolve it?

Remove or change one of the relationships, or add a bridge table, or disable bi-directional filtering.

12) Create a role-playing dimension for OrderDate and ShipDate.

Duplicate the Date table twice and link one copy to OrderDate and the other to ShipDate.

13) Handle a many-to-many relationship between Customers and Products.

Use a bridge table (e.g., CustomerProduct) to break many-to-many into two one-to-many relationships.

14) Use bidirectional filtering sparingly — when is it appropriate?

When filtering needs to flow both ways for specific report logic, such as complex slicers or bridges.



ProductName	Year	Quarter	Month	Day	ProductID	Sum of totalsales
Laptop	2023	Qtr 1	January	5	1	2610
Mouse	2023	Qtr 1	January	10	2	6525
Keyboard	2023	Qtr 1	January	15	3	1305
Total						10440

Broken RI Count	Sum of totalsales
	10440

Alice

First Name