# Power BI Interview Questions

Asked in Service Based Company

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# Question

**How do you combine two disconnected tables to create a final table with the columns from the individual tables?**

I'm using the customer and address details tables for that. There is no column to link these two tables.

| A B C Customer | A B C Age | A B C Gender |
|---|---|---|
| Bharath | 27 | Male |
| Munna | 28 | Male |
| Sowmiya | 29 | Female |
| Sanjay | 30 | Male |
| Pankaj | 29 | Male |
| Azar | 26 | Male |

⟶ **Customer Table**

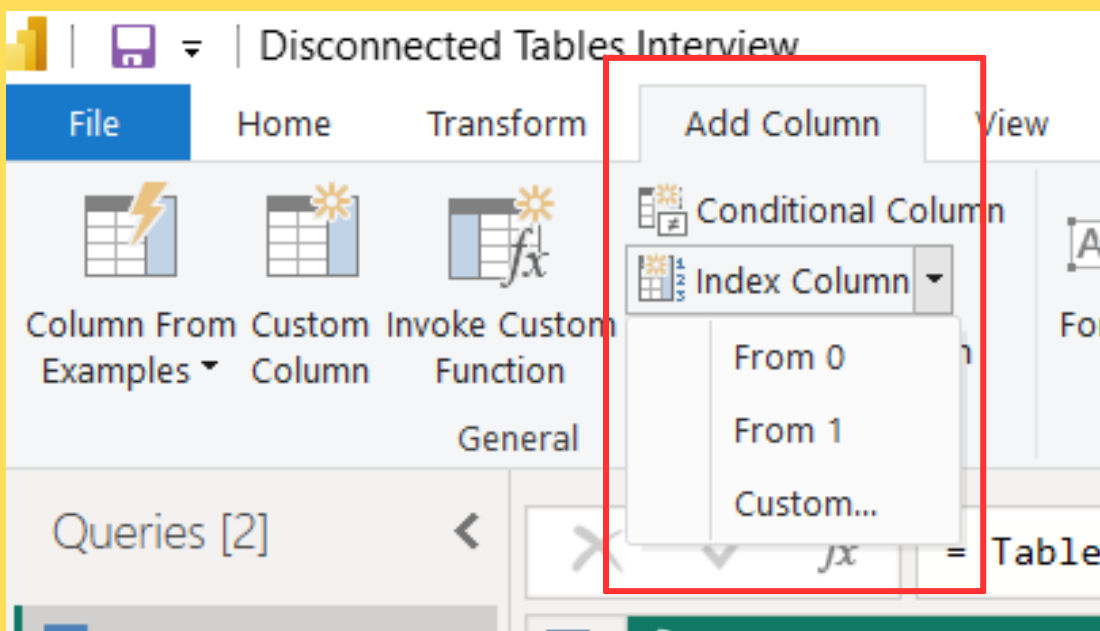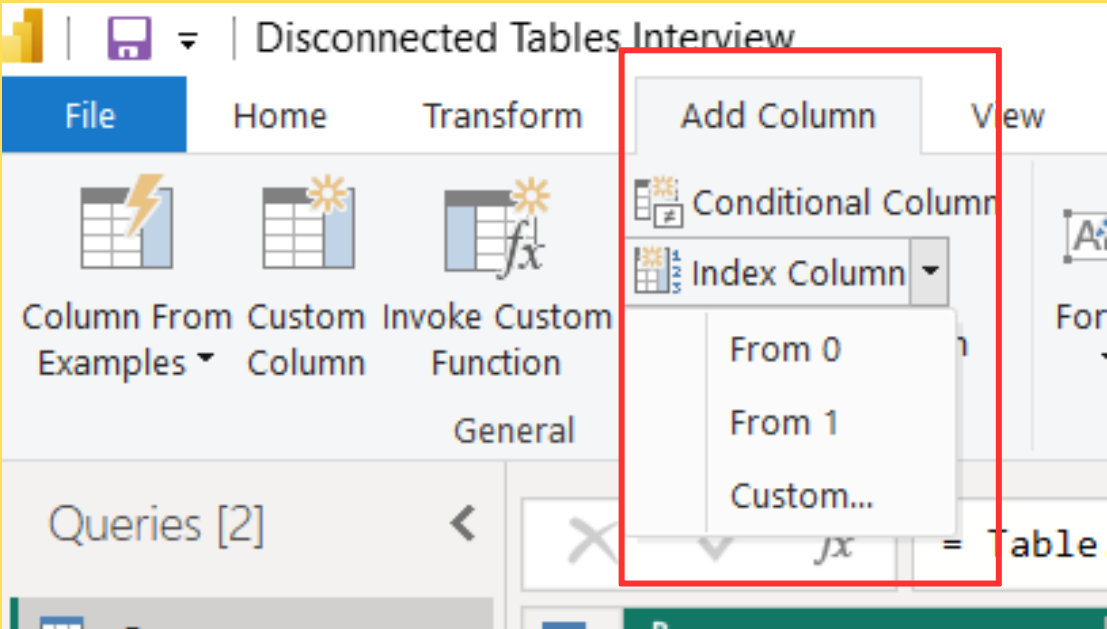| A B C Customer Address | A B C City | A B C State |
|---|---|---|
| abc | Hyderabad | Telangana |
| def | Mumbai | Maharashtra |
| ghi | Hyderabad | Telangana |
| jkl | Bangalore | Karnataka |
| mno | Chennai | Tamil Nadu |
| pqr | Guntur | Andhra Pradesh |

⟶ **Address Table**

# Step1

In the customer table, go to the add column tab and click index column. I want to start from one, so one column will be generated, which is index column, and it will give us all the unique values in all the records that are present over here, so six records are there. Each record has a unique index value.



| ABC Customer | 123 Age | ABC Gender | 123 Index |
|---|---|---|---|
| Bharath | 27 | Male | 1 |
| Munna | 28 | Male | 2 |
| Sowmiya | 29 | Female | 3 |
| Sanjay | 30 | Male | 4 |
| Pankaj | 29 | Male | 5 |
| Azar | 26 | Male | 6 |

# Repeat for Address details table.



| ABC Customer Address | ABC City | ABC State | 2₃ Index |
|---|---|---|---|
| abc | Hyderabad | Telangana | 1 |
| def | Mumbai | Maharashtra | 2 |
| ghi | Hyderabad | Telangana | 3 |
| jkl | Bangalore | Karnataka | 4 |
| mno | Chennai | Tamil Nadu | 5 |
| pqr | Guntur | Andhra Pradesh | 6 |

# Step2

I will again go to the **"customer table"**, **"Home tab"**, and click on this **"merge queries option"**.

Why are we merging?

Because we have to combine these two tables. I will select my second table, select my common column, and you can see that we have common values matching in both tables because we created those individually for all the records in both tabs. it says selection matches six records, click okay

# Merge

Select a table and matching columns to create a merged table.

Customer

| Customer | Age | Gender | Index |
|----------|-----|--------|-------|
| Bharath | 27 | Male | 1 |
| Munna | 28 | Male | 2 |
| Sowmiya | 29 | Female | 3 |
| Sanjay | 30 | Male | 4 |
| Pankaj | 29 | Male | 5 |

Address Details ▾

| Customer Address | City | State | Index |
|------------------|------|-------|-------|
| abc | Hyderabad | Telangana | 1 |
| def | Mumbai | Maharashtra | 2 |
| ghi | Hyderabad | Telangana | 3 |
| jkl | Bangalore | Karnataka | 4 |
| mno | Chennai | Tamil Nadu | 5 |

Join Kind

Inner (only matching rows) ▾

☐ Use fuzzy matching to perform the merge

▷ Fuzzy matching options

OK    Cancel

# Step3

Expand **"Address Details"** in **"Customer Table"** and select Address, City, State.

| 1²₃ Index ▼ | ⊞ Address Details ⇄ |
|---|---|
| 1 | Table |
| 2 | Table |
| 3 | Table |
| 4 | Table |
| 5 | Table |
| 6 | Table |

Search Columns to Expand

● Expand  ○ Aggregate

☑ (Select All Columns)
- ☑ Customer Address
- ☑ City
- ☑ State
- ☐ Index

☐ Use original column name as prefix

OK        Cancel

# Output

| ABC Customer | 123 Age | ABC Gender | 123 Index | ABC Customer Address | ABC City | ABC State |
|---|---|---|---|---|---|---|
| Bharath | 27 | Male | 1 | abc | Hyderabad | Telangana |
| Munna | 28 | Male | 2 | def | Mumbai | Maharashtra |
| Sowmiya | 29 | Female | 3 | ghi | Hyderabad | Telangana |
| Sanjay | 30 | Male | 4 | jkl | Bangalore | Karnataka |
| Pankaj | 29 | Male | 5 | mno | Chennai | Tamil Nadu |
| Azar | 26 | Male | 6 | pqr | Guntur | Andhra Pradesh |

Bharath is my first client. I now have the complete details of this customer, as you can see here.

You may be wondering why we chose this method of creating one index column: we have finally combined the two tables, but why did we choose the index column?

If we add any more records, they will be added to the customer table from the source and to the address.

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