

POWER-BI SCENARIO BASED QUESTIONS

QUESTION 23 & 24

- Joins in Power-BI
- Deloitte Question

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QUESTION 23 Different types of joins in Power-bi

SAMPLE TABLES



	1 ² ₃ Column1	1 ² ₃ Column2
1	10	10
2	1	4
3	null	null
4	2	5
5	3	6

Null verify table

Left table

 1 ² ₃ Column1 	
1	4
2	5
3	5
4	null
5	10
6	10
7	15

right table

 1 ² ₃ Column1 	
1	5
2	null
3	6
4	null
5	10
6	12

QUESTION 23(1)

What is null in Power-BI?

Null or Blank in SQL is **not same** as in Power-bi.

If any dataset in power query editor has blank value, power query displays it as null rather than blank.

Generally null != null whereas
in Power-BI null = null

Custom Column

Add a column that is computed from the other columns.

New column name

Custom

Custom column formula ⓘ

= if [Column1] = [Column2] then 1 else 0

Available columns

Column1

Column2

	1 ² ₃ Column1	1 ² ₃ Column2	ABC 123 Custom
1	10	10	1
2	1	4	0
3	null	null	1
4	2	5	0
5	3	6	0

Hence proved, null = null

QUESTION

23(2)

Show different joins in Power-BI

- Inner join
- Left outer join
- Right outer join
- Left=anti join
- Right-anti join
- Full outer join

Inner join

Merge

Select tables and matching columns to create a merged table.

left Table



Column1

4

5

5

null

10

right Table



Column1

5

null

6

null

10

Join Kind

Inner (only matching rows)

☐ Use fuzzy matching to perform the merge

▸ Fuzzy matching options

✓ The selection matches 5 of 7 rows from the first table, and 4 of 6 rows from...

OK

Cancel

	1 ² ₃ Column1	1 ² ₃ Column1.1
1	5	5
2	5	5
3	null	null
4	null	null
5	10	10
6	10	10

Left outer join

Merge

Select tables and matching columns to create a merged table.

left Table



Column1
4
5
5
null
10

right Table



Column1
5
null
6
null
10

Join Kind

Left Outer (all from first, matching from second)

☐ Use fuzzy matching to perform the merge

▸ Fuzzy matching options

✓ The selection matches 5 of 7 rows from the first table.

OK

Cancel

	1 ² 3 Column1
1	4
2	5
3	5
4	null
5	null
6	10
7	10
8	15

Merge

Select tables and matching columns to create a merged table.

left Table

Column1
4
5
5
null
10

right Table

Column1
5
null
6
null
10

Join Kind

Right Outer (all from second, matching from first)

☐ Use fuzzy matching to perform the merge

▸ Fuzzy matching options

✓ The selection matches 4 of 6 rows from the second table.

OK

Cancel

Right outer join

1 ² 3	Column1.1
1	5
2	5
3	null
4	null
5	10
6	10
7	6
8	12

Merge

Select tables and matching columns to create a merged table.

left Table



Column1

4

5

5

null

10

right Table



Column1

5

null

6

null

10

Join Kind

Left Anti (rows only in first)

☐ Use fuzzy matching to perform the merge

▸ Fuzzy matching options

✓ The selection excludes 5 of 7 rows from the first table.

OK

Cancel

Left-anti join

	1 ² ₃ Column1	
1		4
2		15

Merge

Select tables and matching columns to create a merged table.

left Table

Column1

4

5

5

null

10

right Table

Column1

5

null

6

null

10

Join Kind

Right Anti (rows only in second)

☐ Use fuzzy matching to perform the merge

▸ Fuzzy matching options

✓ The selection excludes 4 of 6 rows from the second table.

OK

Cancel

Right-anti join

	1 ² ₃ Column1.1	
1		6
2		12

Merge

Select tables and matching columns to create a merged table.

left Table

Column1
4
5
5
null
10

right Table

Column1
5
null
6
null
10

Join Kind

Full Outer (all rows from both)

☐ Use fuzzy matching to perform the merge

▸ Fuzzy matching options

✓ The selection matches 5 of 7 rows from the first table, and 4 of 6 rows fro...

OK

Cancel

Full outer join

	1 ² 3 Column1	1 ² 3 Column1.1
1	4	null
2	5	5
3	5	5
4	null	null
5	null	null
6	10	10
7	10	10
8	15	null
9	null	6
10	null	12

QUESTION 24 From the given table create a new table with only 3 columns having conditions –
1). productid <= 100 2). product name starts with s 3). product price >= 500

SAMPLE TABLE

ProductID	Product name	Price	color	quantity
10	SP1	600	Red	1
50	P2	200	green	2
70	SP3	900	black	3
80	P4	400	white	4
200	P5	500	blue	5
300	SP6	150	yellow	6
700	P7	700	orange	7
100	SP8	800	purple	8

Products table

```
1 New table = CALCULATETABLE(  
2 |     SUMMARIZECOLUMNS(products[ProductID], products[Product name], products[Price]),  
3 products[ProductID]<= 100, products[Price] >= 500,  
4 SEARCH("s",products[Product name],1,BLANK()))  
5 )
```

ProductID	Product name	Price
10	SP1	600
70	SP3	900
100	SP8	800

THANK YOU

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