Basic Level (1-10)

1	Concatenate	First and	Last Nan	ne
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DAX

CopyEdit

FullName = Customers[FirstName] & " " & Customers[LastName]

2. Convert Email Address to Uppercase

DAX

CopyEdit

Email_Upper = UPPER(Customers[EmailAddress])

3. Extract First 3 Characters from First Name

DAX

CopyEdit

First3Chars = LEFT(Customers[FirstName], 3)

4. Count Characters in Last Name

DAX

CopyEdit

LastName_Length = LEN(Customers[LastName])

5. Convert First Name to Lowercase

DAX

CopyEdit

FirstName_Lower = LOWER(Customers[FirstName])

6. Trim Spaces in EnglishEducation

DAX

CopyEdit

Education_Trimmed = TRIM(Customers[EnglishEducation])

7. Repeat '*' Character Equal to Length of First Name

DAX

CopyEdit

Stars_FirstName = REPT("*", LEN(Customers[FirstName]))

8. Get Last 4 Characters of Phone Number
--

DAX

CopyEdit

Last4 Phone = RIGHT(Customers[Phone], 4)

9. Format YearlyIncome to Currency with 2 Decimals

DAX

CopyEdit

Income_Currency = FORMAT(Customers[YearlyIncome], "\$#,##0.00")

10. Check If FirstName and LastName Are Exactly the Same

DAX

CopyEdit

Same_Name = IF(Customers[FirstName] = Customers[LastName], TRUE(), FALSE())

Intermediate Level (11-20)

11. Find If 'Manager' Appears in Occupation (Case Sensitive)

DAX

CopyEdit

Is_Manager = IF(SEARCH("Manager", Customers[Occupation], 1, 0) > 0, TRUE(), FALSE())

12. Search for 'graduate' in EnglishEducation (Case Insensitive)

DAX

CopyEdit

Is_Graduate = IF(SEARCH("graduate", LOWER(Customers[EnglishEducation]), 1, 0) > 0, TRUE(), FALSE())

13. Extract Characters 3-7 from First Name

DAX

CopyEdit

Chars3to7 = MID(Customers[FirstName], 3, 5)

14. Replace Area Code in Phone Number with 'XXX'

DAX

```
Phone_Masked_Area = "XXX" & MID(Customers[Phone], 4, LEN(Customers[Phone]) - 3)
   15. Format BirthDate as 'DD-MM-YYYY'
DAX
CopyEdit
BirthDate_Format = FORMAT(Customers[BirthDate], "DD-MM-YYYY")
   16. Create Initial + Last Name Format (e.g., J.Smith)
DAX
CopyEdit
Initial_LastName = LEFT(Customers[FirstName], 1) & "." & Customers[LastName]
   17. Capitalize First Letter of FirstName, Lowercase the Rest
DAX
CopyEdit
FirstName Capitalize = UPPER(LEFT(Customers[FirstName], 1)) &
LOWER(MID(Customers[FirstName], 2, LEN(Customers[FirstName]) - 1))
   18. Substitute Dashes with Spaces in Phone
DAX
CopyEdit
Phone_Spaces = SUBSTITUTE(Customers[Phone], "-", " ")
   19. Convert BirthDate Year to Numeric Using VALUE
DAX
CopyEdit
BirthYear_Value = VALUE(FORMAT(Customers[BirthDate], "YYYY"))
   20. Show YearlyIncome Rounded to 1 Decimal Without Commas
DAX
CopyEdit
Income_OneDecimal = FORMAT(ROUND(Customers[YearlyIncome], 1), "0.0")
```

CopyEdit

Advanced Level (21-30)

```
DAX
CopyEdit
Customer Code = LEFT(Customers[LastName], 2) & RIGHT(Customers[CustomerKey], 2)
   22. Validate Email Ends with '.com' and Contains '@'
DAX
CopyEdit
Email Valid = IF(RIGHT(Customers[EmailAddress], 4) = ".com" && FIND("@",
Customers[EmailAddress], 1, 0) > 0, TRUE(), FALSE())
   23. Extract Domain Name from EmailAddress
DAX
CopyEdit
Email Domain = RIGHT(Customers[EmailAddress], LEN(Customers[EmailAddress]) -
FIND("@", Customers[EmailAddress], 1))
   24. Mask Phone Number Except Last 4 Digits
DAX
CopyEdit
Phone_Masked = REPT("*", LEN(Customers[Phone]) - 4) & RIGHT(Customers[Phone], 4)
   25. Proper Casing of Last Name (manually)
DAX
CopyEdit
LastName_Proper = UPPER(LEFT(Customers[LastName], 1)) &
LOWER(MID(Customers[LastName], 2, LEN(Customers[LastName]) - 1))
   26. Replace Multiple Spaces in EnglishOccupation with Single Space
DAX
CopyEdit
Occupation_SingleSpace = SUBSTITUTE(TRIM(Customers[Occupation]), " ", " ")
   27. Generate Custom ID: Initials + Birth Year (e.g., JD_1985)
DAX
```

CopyEdit

21. Customer Code: First 2 Letters of LastName + Last 2 of CustomerKey

```
Custom ID = LEFT(Customers[FirstName], 1) & LEFT(Customers[LastName], 1) & " " &
FORMAT(Customers[BirthDate], "YYYY")
   28. Remove Hyphens and Convert Phone to Number
DAX
CopyEdit
Phone Number = VALUE(SUBSTITUTE(Customers[Phone], "-", ""))
   29. Customer Segmentation (Education + Income)
DAX
CopyEdit
Customer Segment =
SWITCH(
 TRUE(),
 Customers[EnglishEducation] = "Graduate Degree" && Customers[YearlyIncome] >
90000, "Elite",
 Customers[EnglishEducation] = "Bachelors" && Customers[YearlyIncome] >= 60000 &&
Customers[YearlyIncome] <= 90000, "Professional",
 Customers[EnglishEducation] = "High School", "Basic",
 "Other"
)
   30. Measure: Customer Count by Gender or Total
DAX
CopyEdit
Customer_Count =
VAR SelectedGenders = VALUES(Customers[Gender])
VAR GenderCount = COUNTROWS(SelectedGenders)
RETURN
 IF(
   GenderCount = 0,
   COUNTROWS(Customers),
```

IF(GenderCount = 1,

```
CALCULATE(COUNTROWS(Customers), Customers[Gender] IN SelectedGenders),

"Multiple Values Selected"
)
```