### Advanced Power Query

- other Learning Goals:
  - Use append queries to combine tables.
  - Add new custom or calculated columns.
  - Use pivot and unpivot to reshape your data.
  - Use advanced Text Column features to clean and format string data.
  - Apply various Number Column functions for summarizing and transforming numeric data.
  - Distinguish between Transform Tab and Add Column Tab operations.

By Delimiter

By Number of Characters

By Positions

By Lowercase to Uppercase

By Uppercase to Lowercase

By Digit to Non-Digit

By Non-Digit to Digit

## Append Queries

Sales-2015

Sales-2016

Sales-2017

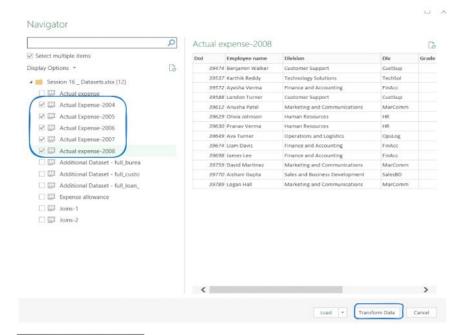
Sales-2018

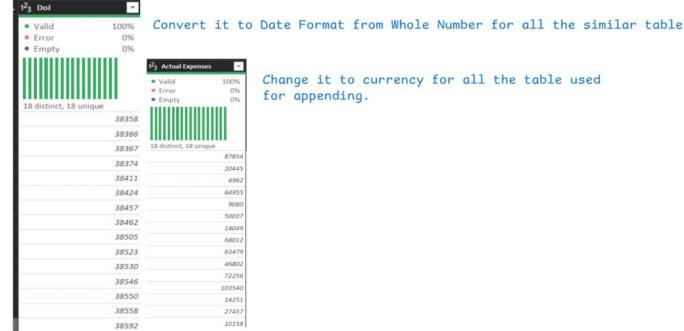
Sales-2019

In order to append table to extend the number > of records in vertical direction

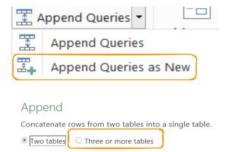
- 1. Table Should be Identical.
- Number of columns has to be equal,
- Column should be in same order.
- Column should consist of similar data type.

Sales - 2015/19





Change it to currency for all the table used for appending.

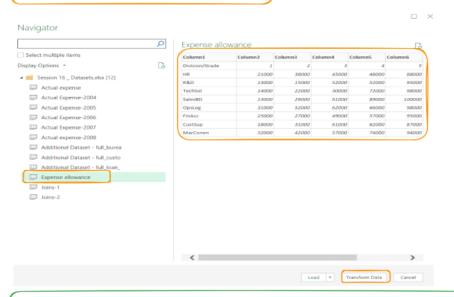


Actual Expense-2004 Second table

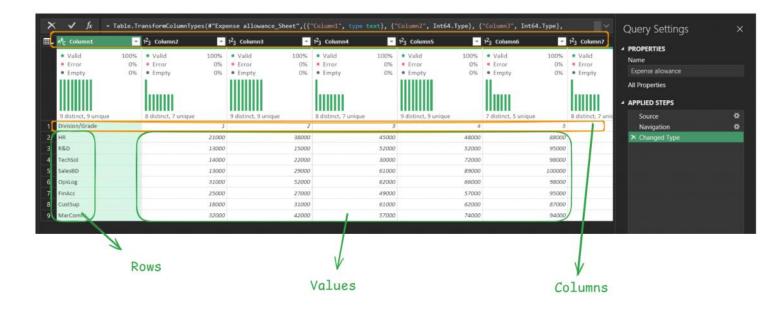
OK Cancel



### Pivot Table/Unpivot Table

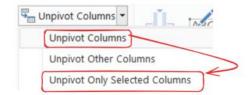


Pivot Turns row values into column headers and Unpivot Turns columns into rows to normalizing wide tables.

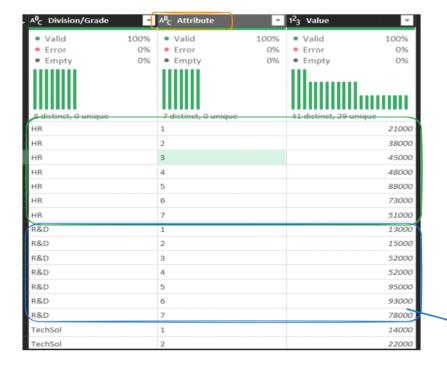




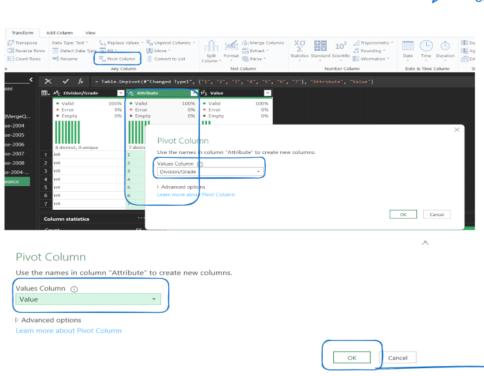
Select all others columns except division. A<sup>B</sup>C Division/Grade • Valid • Error 00% • Valid 0% • Error Valid Valid Valid 100% Valid 100% Valid • Error • Error • Error · Error 0% 0% 0% · Error • Empty • Empty • Empty • Empty 0% • Empty • Empty · Empty 0% 0% HR 21000 38000 45000 48000 88000 95000 R&D 13000 15000 52000 52000 TechSol 14000 22000 30000 72000 98000 SalesBD 13000 29000 61000 89000 100000 31000 52000 62000 98000 25000 27000 49000 57000 95000 FinAcc 18000 31000 61000 62000 87000 42000 57000 74000 MarCon 94000

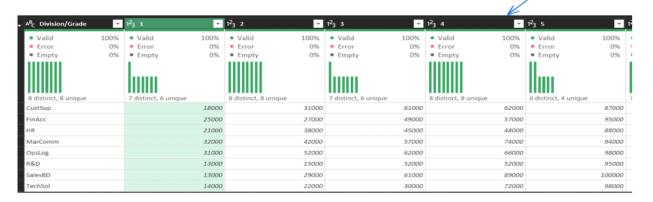


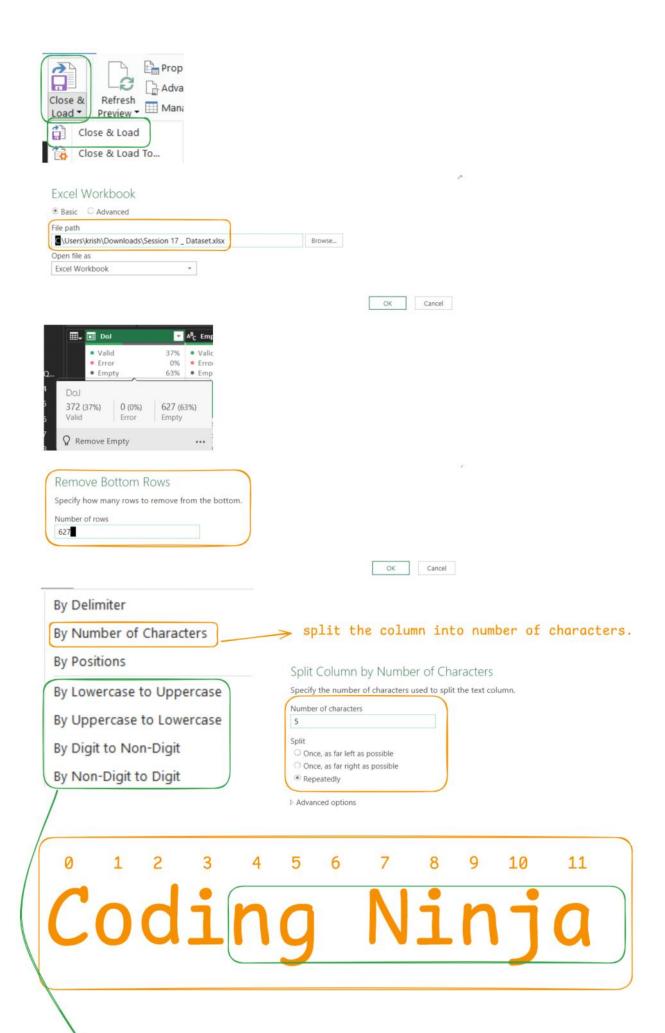
2D Matrix is now become 1D Matrix.



Convert into Pivot Table.



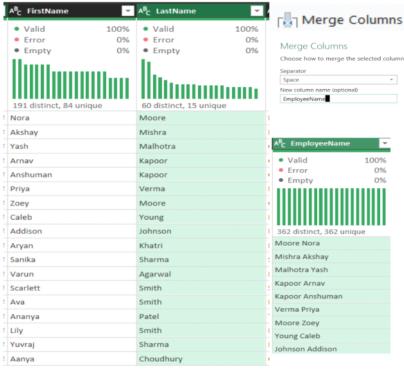


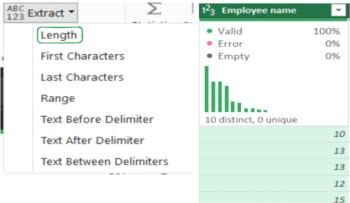


krishnaMadan [By Lowercase to Uppercase] krishna Madan KRISHNAmadan [By Uppercase to Lowercase] KRISHNA madan (lower to upper) -> upper to lower rahulKUMARmishrarahul KUMARmishra > KUMAR mishra CodingNinja123 -> NonDigit To Digit CodingNinja 123 1234CodingNinja-> Digit To NonDigit 1234 CodingNinja Merge Columns ABC Extract \* Enter a text value to add to the front of each value in the column. abc Parse \* Hi, lowercase UPPERCASE OK Cancel Capitalize Each Word Suffix Trim Enter a text value to add to the end of each value in the column. Clean Add Prefix Add Suffix Hi, Nora Moore! Hi, Akshay Mishra! Hi, Yash Malhotra! Hi, Arnav Kapoor! Hi, Anshuman Kapoor! Hi, Priya Verma!

Hi, Zoey Moore! Hi, Caleb Young!

Hi, Addison Johnson!





### LEFT

### **Extract First Characters**

Enter how many starting characters to keep.

Count 5

### RIGHT

### **Extract Last Characters**

Enter how many ending characters to keep.

Count 5

### WID

### Extract Text Range

Enter the index of the first character, and the number of characters to keep.

Starting Index

1

Number of Characters
5



OK Cancel

# Krishnamadan77@gmail.com#998261697121

username

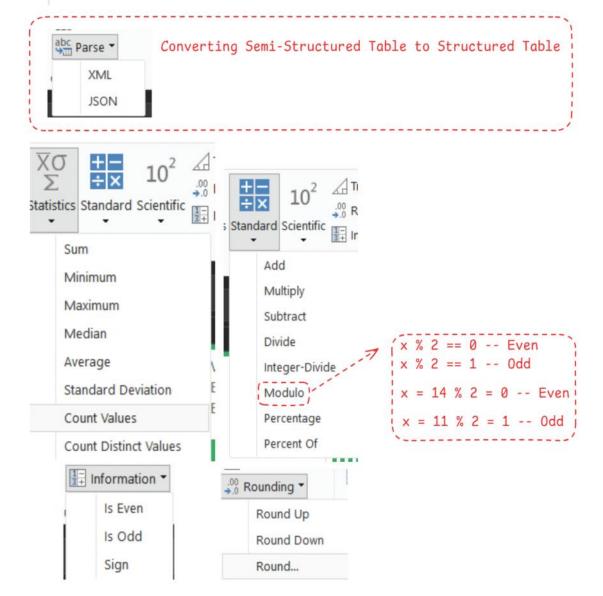
domain\_name

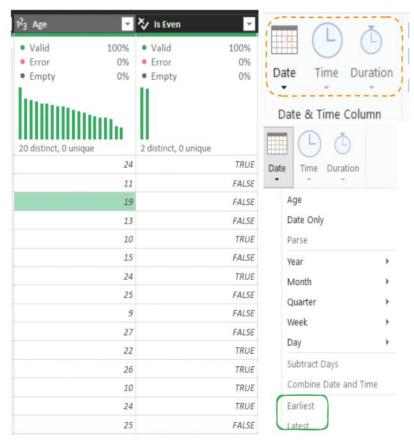
random\_phone\_number

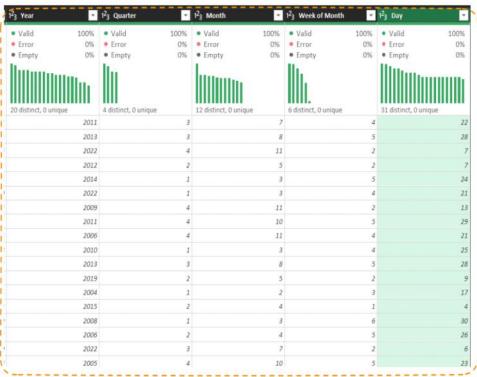
## Text Before Delimiter

## Text After Delimiter

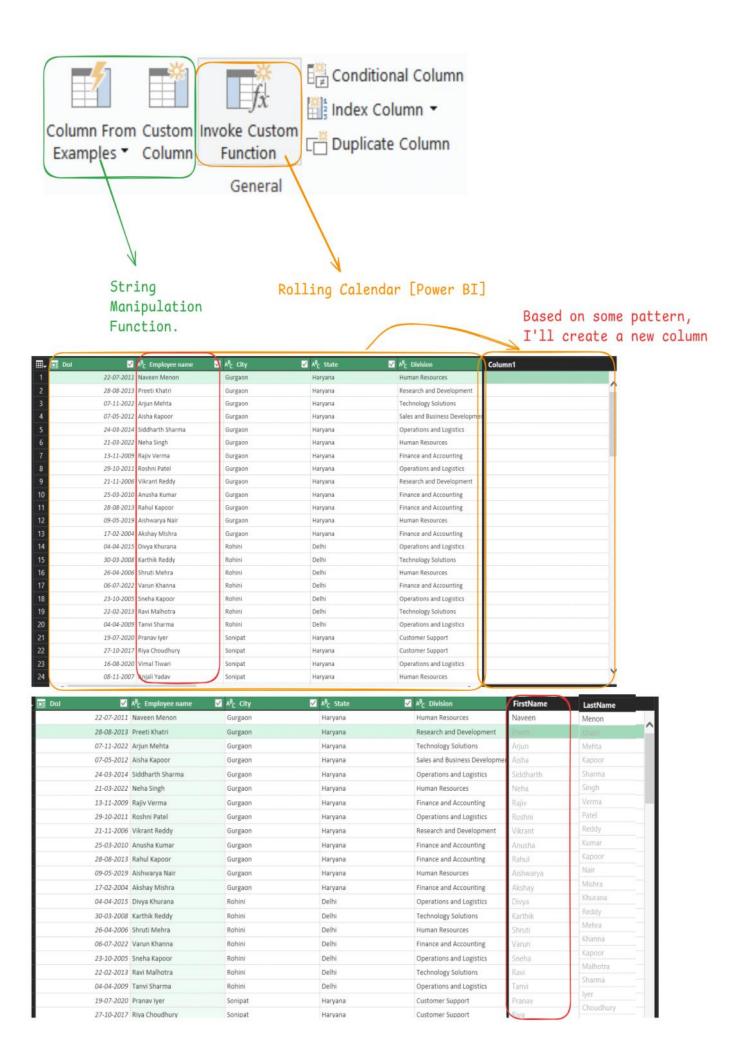
# Text Between Delimiters







= TODAY() - DATE = Earliest/Latest.



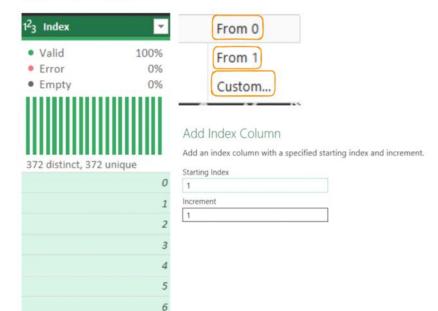


### Custom Column

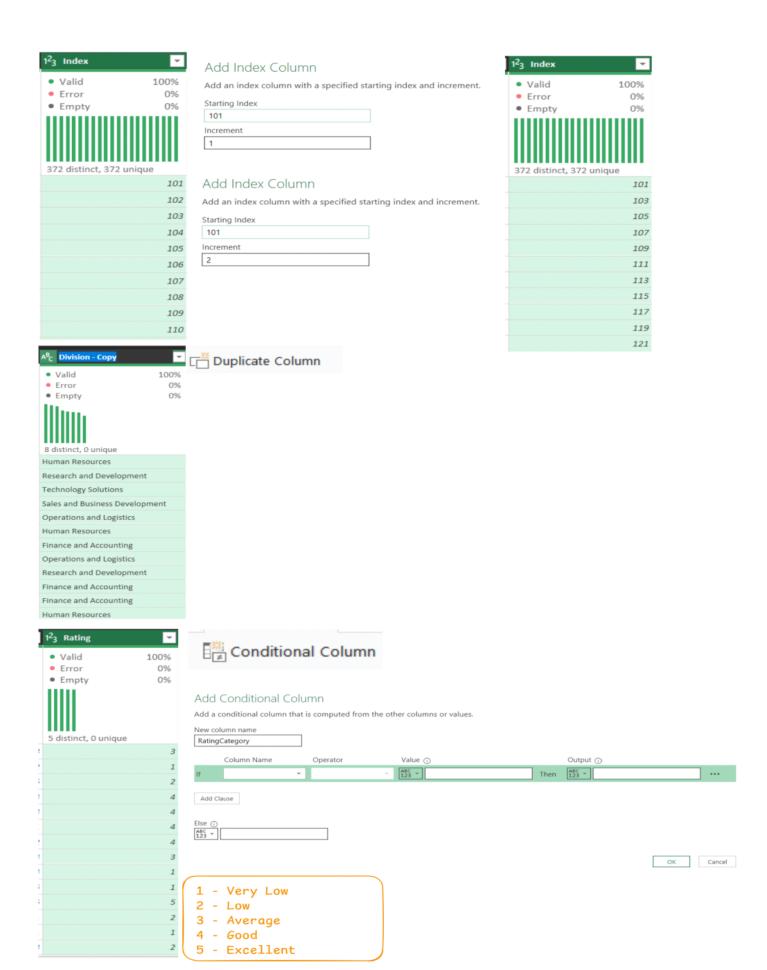
Add a column that is computed from the other columns.







OK Cancel



#### Add Conditional Column Add a conditional column that is computed from the other columns or values. New column name RatingCategory Value ① Column Name Operator Output ① \* ABC + 2 ▼ is less than ABC + Very Low Ìf Rating Then + ABC + 3 ≠ is less than ABC 123 \* Low Rating Then Else If \* ABC + 4 \* is less than ABC - Average Rating Else If Then Rating + ABC + 5 ABC + Good ▼ is less than Else If - ABC - 5 ABC + Excellent Else If Rating • equals ... Add Clause Else ① ABC 123 Not Defined Cancel OK ✓ (Select All) ✓ Average ✓ Excellent 1,2 low ✓ Good 3,4 average ✓ Low 5 Excellent ✓ Very Low ✓ (Select All) Add Conditional Column ✓ Average Add a conditional column that is computed from the other columns or values. ✓ Excellent New column name RatingCategory ✓ Low Column Name Value ① Output ① \* is less than or equ... \* ABC 123 \* 2 ABC 123 \* Low Rating

ABC + Average

123 \* Excellent

\*\*\*

is less than or equ... → ABC 123 → 4

▼ equals

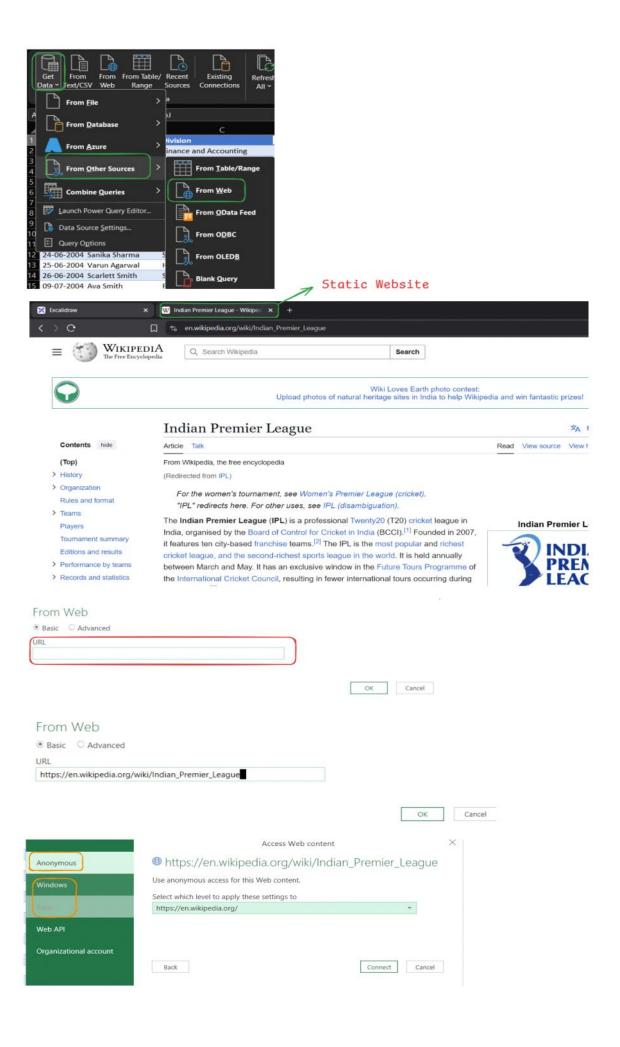
\* ABC + 5

Else If Rating

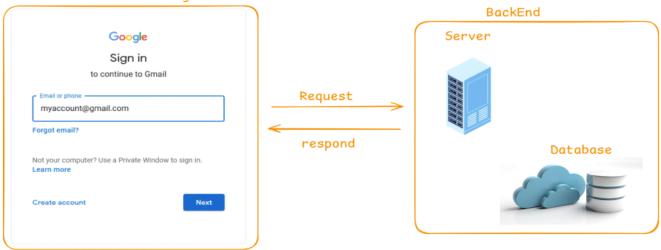
Else If Rating

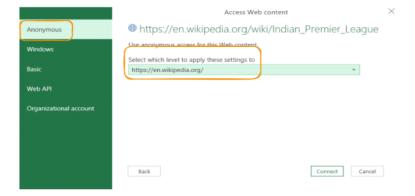
Add Clause

ABC V Not Defined



### Front End [Gmail Login]





### Connecting

Please wait while we establish a connection to https://en.wikipedia.org/wiki/Indian\_Premier\_League.

Cancel

