

## 1. Please provide steps to convert an epoch Timestamp to

a. Datetime value

b. Date value

with any visualisation/wrangling tool except google sheets and microsoft excel.

Ans –

### Step 1)

Load Data into Power BI:

Open Power BI Desktop.

Load the data by clicking "Home" > "Get Data" by using Excel file.

Import an online source data directly into Power BI to transform the data in the Power Query Editor

Microsoft Power Query Editor interface showing a table with two columns: Index and epoch\_time. The table contains 20 rows of data. The Index column is highlighted, and the epoch\_time column is also visible. The interface includes a ribbon with various data manipulation options and a right-hand pane for Query Settings.

Index	epoch_time
1	1729001193
2	1729001194
3	1729001195
4	1729001196
5	1729001197
6	1729001198
7	1729001199
8	1729001200
9	1729001201
10	1729001202
11	1729001203
12	1729001204
13	1729001205
14	1729001206
15	1729001207
16	1729001208
17	1729001209
18	1729001210
19	1729001211
20	1729001212

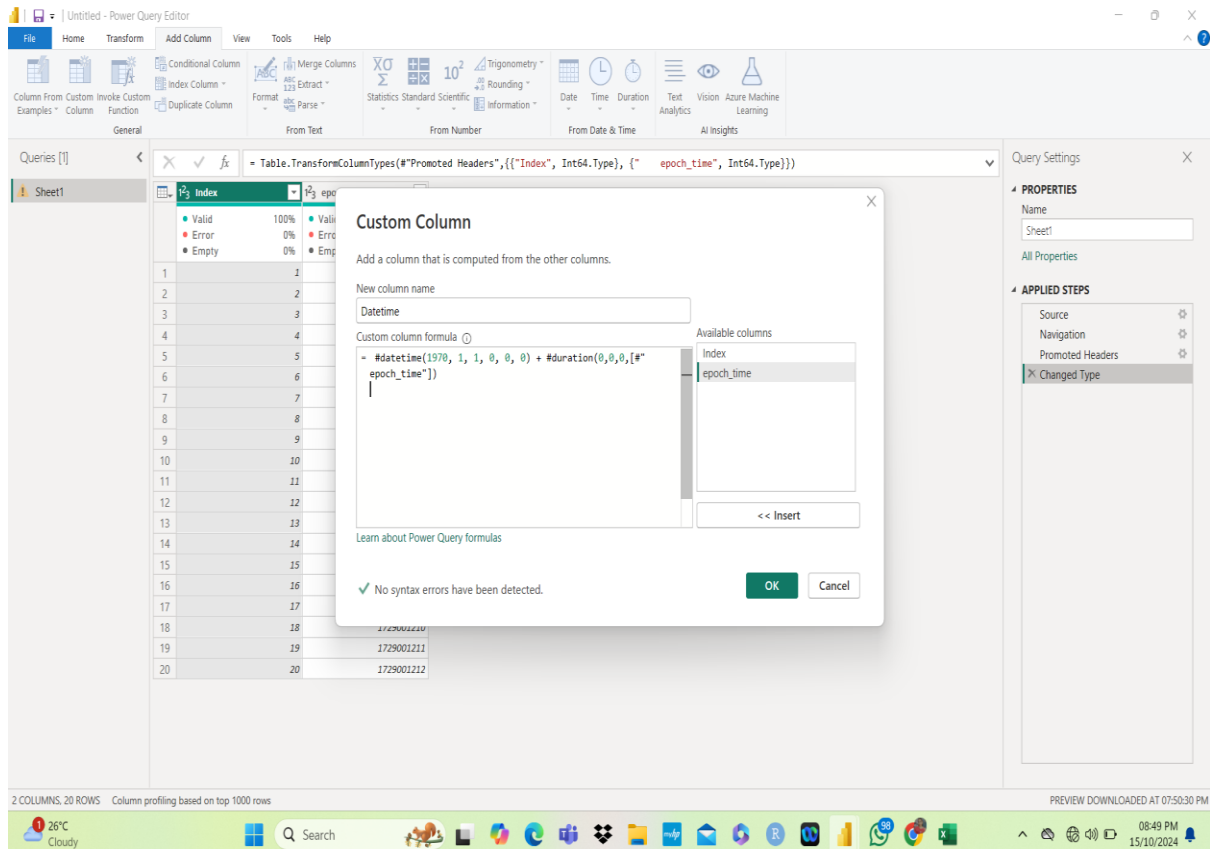
### Step 2)

Create a Custom Column for Datetime Conversion:

In the Power Query Editor, went to "Add Column" > "Custom Column".

Custom Column name = Datetime

By using the given formula - `=#datetime(1970,1,1,0,0,0)+#duration(0,0,0,[#"epoch_time"])`



**Step 3)**

Given below epoch timestamps converted into readable datetime format in Power BI!

The screenshot shows the Power Query Editor window with the following components:

- Formula Bar:** Contains the formula: `= Table.AddColumn(#"Changed Type", "Datetime", each #datetime(1970, 1, 1, 0, 0, 0) + #duration(0,0,0,[#" epoch_time"]])`
- Table:** A table with 3 columns: Index, epoch\_time, and Datetime. It contains 20 rows of data.
- Applied Steps:** A list on the right showing the steps applied to the query, including 'Added Custom'.
- Properties:** A section on the right showing the name of the query as 'Sheet1'.

Index	epoch_time	Datetime
1	1	15/10/2024 02:06:33 PM
2	2	15/10/2024 02:06:34 PM
3	3	15/10/2024 02:06:35 PM
4	4	15/10/2024 02:06:36 PM
5	5	15/10/2024 02:06:37 PM
6	6	15/10/2024 02:06:38 PM
7	7	15/10/2024 02:06:39 PM
8	8	15/10/2024 02:06:40 PM
9	9	15/10/2024 02:06:41 PM
10	10	15/10/2024 02:06:42 PM
11	11	15/10/2024 02:06:43 PM
12	12	15/10/2024 02:06:44 PM
13	13	15/10/2024 02:06:45 PM
14	14	15/10/2024 02:06:46 PM
15	15	15/10/2024 02:06:47 PM
16	16	15/10/2024 02:06:48 PM
17	17	15/10/2024 02:06:49 PM
18	18	15/10/2024 02:06:50 PM
19	19	15/10/2024 02:06:51 PM
20	20	15/10/2024 02:06:52 PM

## Step 4)

Create a Custom Column for Datetime Conversion:

In the Power Query Editor, went to "Add Column" > "Custom Column".

Custom Column name = Date

By using the given formula -

`=Date.From(#datetime(1970,1,1,0,0,0)+#duration(0,0,0,[#"epoch_time"]])`

Untitled - Power Query Editor

File Home Transform Add Column View Tools Help

Conditional Column Index Column \* Merge Columns Statistics Standard Scientific Trigonometry \* Date Time Duration Text Vision Azure Machine Learning

Column From Custom Invoke Custom Examples \* Column Function Duplicate Column

General From Text From Number From Date & Time AI Insights

Queries [1]

Sheet1

Table.AddColumn(\*"Changed Type", "Datetime", each #datetime(1970, 1, 1, 0, 0, 0) + #duration(0,0,0,[# epoch\_time]))

**Custom Column**

Add a column that is computed from the other columns.

New column name: Date

Custom column formula: = Date.From(#datetime(1970, 1, 1, 0, 0, 0) + #duration(0,0,0,[# epoch\_time]))

Available columns: Index, epoch\_time, Datetime

<< Insert

Learn about Power Query formulas

✓ No syntax errors have been detected.

OK Cancel

**Query Settings**

**PROPERTIES**

Name: Sheet1

All Properties

**APPLIED STEPS**

Source, Navigation, Promoted Headers, Changed Type, Added Custom

3 COLUMNS, 20 ROWS Column profiling based on top 1000 rows

PREVIEW DOWNLOADED AT 07:50:30 PM

26°C Cloudy

Search

09:15 PM 15/10/2024

## Step 5)

Given below epoch timestamps converted into readable date format in Power BI!

FileHomeTransformAdd ColumnViewToolsHelp

Column From Custom ExamplesColumn From Custom Invoke Custom FunctionDuplicate Column

Conditional ColumnIndex Column

FormatParse

From Text

From Number

From Date & Time

Text Analytics

Vision Azure Machine Learning

AI Insights

Queries [1]

Sheet1

Index

epoch\_time

Datetime

Date

Index	epoch_time	Datetime	Date
1	1	1729001193	15/10/2024 02:06:33 PM
2	2	1729001194	15/10/2024 02:06:34 PM
3	3	1729001195	15/10/2024 02:06:35 PM
4	4	1729001196	15/10/2024 02:06:36 PM
5	5	1729001197	15/10/2024 02:06:37 PM
6	6	1729001198	15/10/2024 02:06:38 PM
7	7	1729001199	15/10/2024 02:06:39 PM
8	8	1729001200	15/10/2024 02:06:40 PM
9	9	1729001201	15/10/2024 02:06:41 PM
10	10	1729001202	15/10/2024 02:06:42 PM
11	11	1729001203	15/10/2024 02:06:43 PM
12	12	1729001204	15/10/2024 02:06:44 PM
13	13	1729001205	15/10/2024 02:06:45 PM
14	14	1729001206	15/10/2024 02:06:46 PM
15	15	1729001207	15/10/2024 02:06:47 PM
16	16	1729001208	15/10/2024 02:06:48 PM
17	17	1729001209	15/10/2024 02:06:49 PM
18	18	1729001210	15/10/2024 02:06:50 PM
19	19	1729001211	15/10/2024 02:06:51 PM
20	20	1729001212	15/10/2024 02:06:52 PM

Query Settings

PROPERTIES

Name

Sheet1

All Properties

APPLIED STEPS

Source

Navigation

Promoted Headers

Changed Type

Added Custom

Added Custom1

4 COLUMNS, 20 ROWSColumn profiling based on top 1000 rowsPREVIEW DOWNLOADED AT 07:50:30 PM

26°C Cloudy

Search

09:15 PM 15/10/2024