Dry Etch

Recipes run in Equipments

Abhijit Roy

Sci./Engr. - 'SD'

CL00102

VFD, Dry Etch
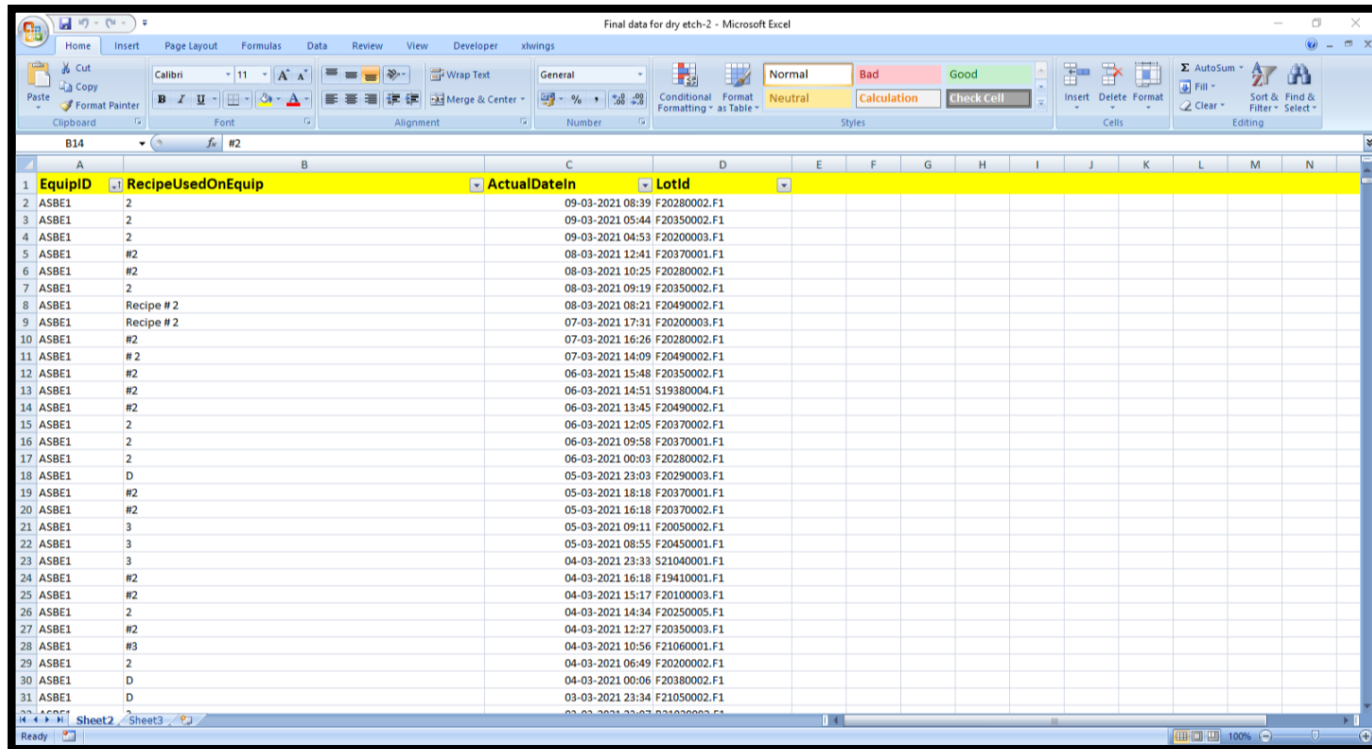
31-Mar-2021

Background

- The shared raw data contains the recipes used for running lots in equipment(s)/chamber(s) with datetime.

Objective

- List down the unique recipes run in respective equipment(s)/chamber(s).
- Show the frequency of each recipe run in respective equipment(s)/chamber(s).

Raw Data

- It contains **17,284** rows & **4** columns. So, the only procedure to extract meaningful information is using scripts.

Data Analysis Procedure

- **Cleaning:** strip whitespaces in each cell data from front & rear side.
- **Wrangling:** filter out the recipes of each equipment/chamber by name in "EquipID" column.

ASBE1

Recipes

```
['#D',
 ': Recipe # D',
 'TS18SL_STRIP',
 'Recipe # D.',
 'Recipe: Recipe # 2',
 'Recipe: Recipe # D',
 'F',
 'ipe # B( if in ASBE1); Recipe:TS18SLSTRIP(if in ASP Chamber of CLREML1).',
 'Recipe#7(300sec) in ASFE1,Recipe:TS18SLStrip in ASP Chamber',
 'Recipe # 4',
 '2',
 'See Remarks for recipes.',
 ': Recipe # 2',
 'Recipe # 3',
 'V2PreDUVASH',
 '# 2',
 '#1',
 'B',
 'Recipe#1',
 'test',
 'TS18SLSTRIP',
 '#3',
 '# D',
 'D',
 '# 3',
 '#6',
 '3',
 '# D.',
 '#d',
 'Recipe # D',
 'See Remark',
 'Recipe#6',
 '#2',
 'TS18SL STRIP',
 'Recipe 1',
 'Recipe # 2',
 'TS18SLSTRIP-REML1']
```

Frequency

ASFE1

Recipes

```
['2,5,and 1',
 '#D',
 ': Recipe # D',
 'NOTE: After ASH, arrange wafers in corresponding slots in the wafer sorter.  Recipe: Recipe # D',
 'B D',
 'Recipe # D.',
 'Recipe: Recipe # 2',
 'Recipe: Recipe # D',
 '1902',
 'F',
 'C1D_ASHING-NFM--Post',
 'Recipe # 4',
 'Recipe:2',
 '2',
 'Recipe F',
 'Recipe# 2',
 'Recipe  D',
 ': Recipe # 2',
 'RecipeD',
 'ASHER1',
 'Recipe # 3',
 'Z-SIPMGC1',
 '# 2',
 'Reciepe 2',
 'Reciepe 3',
 '60 sec',
 '6',
 'ASH',
 'TS18SLSTRIP',
 '#3',
 '# 3',
 'D',
 '# D',
 '#6',
 'Recipe2',
 'pre duv ash',
 'Recipe: Recipe # 3',
 '3',
 '# D.',
 '#d',
 'Recipe  2',
 'Recipe  3',
 'Recipe 3',
 'Reciepe D',
 'sorter.  Recipe: Recipe # D',
 '60 s',
 'NO  Run',
 'RAA_FI"',
 ': #2',
 'Recipe # D',
 'e# 2',
 ': Recipe # 3',
 'ASHER1--CNS Ash',
 '#2',
 '2 and 1',
 'ecipe: #2',
 'D B',
 'Recipe 2',
 'Recipe#2',
 'Recipe-2',
 'recipe D',
 'Recipe: #2',
 'e#2',
 'Recipe D',
 'd',
 'Recipe # 2',
 'Post GC Ash']
```

Frequency

REML1

Recipes

Frequency

REOX1

Recipes

Frequency

REPL1

Recipes

Frequency

RESP1

Recipes

Frequency

THANKS