Groovy Rules

- Groovy vs Business Rules
 - Groovy is a framework for Java
 - But in EPM Cloud, it's built-in, EPM aware and easier to run with one caveat
 - Requires one (1) framework to be enabled
 - Faster and better than Business Rules?
- Calculation Manager
 - Manage both Groovy and Business Rules

```
Actions | Edit | Edit Script | Image: Action | Edit | Edit Script | Image: Action | Edit | Ed
```



Run Your 1st Groovy rule

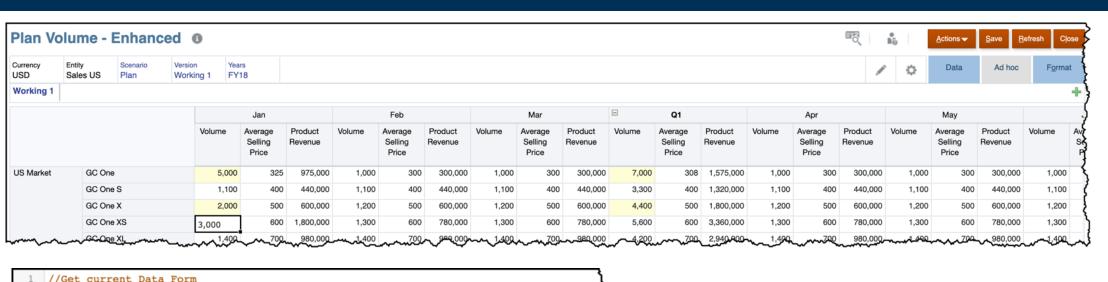
Basic Rule vs Groovy Rule

```
Set UpdateCalc Off;
3 FIX ("BaseData")
      FIX({Scenario}, {Version}, {Entity}, {Currency}, @Relative("YearTotal", 0))
          FIX(@Relative("All Market",0))
          FIX(@Relative("All Product",0))
             "Product Revenue" = "Volume" * "Average Selling Price";
          ENDFIX
          ENDFIX
10
      ENDFIX
                                                          // Business Rule Logic
                                                                                                        Encapsulates Business Rule
   ENDFIX
                                                          String CalcScript =
                                                          Set UpdateCalc Off;
                                                          FIX ("BaseData")
                                                              FIX({Scenario}, {Version}, {Entity}, {Currency}, @Relative("YearTotal", 0))
                                                                   FIX(@Relative("All Market*,0))
                                                                  FIX(@Relative("All Product",0))
                                                                       "Product Revenue" = / "Volume" * "Average Selling Price";
                                                                   ENDFIX
                                                                   ENDFIX
                                                     13
                                                              ENDFIX
                                                          ENDFIX
                                                          // Generates and Launches Business Rule
                                                          println (CalcScript)
                                                                                                                      Launches Business Rule
                                                          return CalcScript
```





Calc Only Updated Data



```
DataGrid CurrGrid = operation.Grid
                                                                                                           Completed
    // Holds the value for the cells that have changed
                                                                                                                       Log messages:
    Set<String> MarketList = []
    Set<String> ProductList = []
                                                                                                                       Set UpdateCalc Off;
    // Iterates through cells and identifies only edited cells
    CurrGrid.dataCellIterator({DataCell cell -> cell.edited}).each { DataCell cell ->
                                                                                                                       FIX ("BaseData")
10
        MarketList << cell.getMemberName("Market")</pre>
                                                                                                                           FIX("OEP_Plan","Working 1","Sales US","USD",@Relative("YearTotal",0))
                                                                                                                           FIX( "US Market" )
11
        ProductList << cell.getMemberName("Product")</pre>
                                                                                                                           FIX( "GC One", "GC One X" )
12
                                                                                                                               "Product Revenue" = "Volume" * "Average Selling Price";
       Create Comma Delimited String for Business rule logic
                                                                                                                           ENDFIX
        String sMarkets = """ "${MarketList.join('","')}" """
14
                                                                                                                           ENDFIX
        String sProducts = """ "${ProductList.join('","')}" """
                                                                                                                         ENDFIX
                                                                                                                       ENDFIX
```





Calc Only Updated Data

```
// Business Rule Logic
    String CalcScript = """
    Set UpdateCalc Off;
    FIX ("BaseData")
        FIX({Scenario}, {Version}, {Entity}, {Currency}, @Relative("YearTotal", 0))
            FIX(@Relative("All Market",0))
            FIX(@Relative("All Product",0))
10
                 "Product Revenue" = "Volume" * "Average Selling Price";
11
            ENDFIX
12
            ENDFIX
13
        ENDFIX
14
    ENDFIX
15
16
    // Generates and Launches Business Rule
    println (CalcScript)
    return CalcScript
```



```
//Get current Data Form
    DataGrid CurrGrid = operation.Grid
    // Holds the value for the cells that have changed
    Set<String> MarketList = []
    Set<String> ProductList = []
    Set<String> VersionList = []
    // Iterates through cells and identifies only edited cells
    CurrGrid.dataCellIterator({DataCell cell -> cell.edited}).each { DataCell cell ->
11
         MarketList << cell.getMemberName("Market")</pre>
12
        ProductList << cell.getMemberName("Product")</pre>
13
        VersionList << cell.getMemberName("Version")</pre>
14
       Create Comma Delimited String for Business rule logic
16
        String sMarkets = """ "${MarketList.join('","')}" """
        String sProducts = """ "${ProductList.join('","')}" """
17
18
        String sVersions = """ "${VersionList.join('","')}" """
19
    // Business Rule Logic
    String CalcScript = """
22
    Set UpdateCalc Off;
24
25
    FIX ("BaseData")
26
        FIX({Scenario}, $sVersions, {Entity}, {Currency}, @Relative("YearTotal", 0))
27
            FIX($sMarkets)
28
            FIX($sProducts)
29
                 "Product Revenue" = "Volume" * "Average Selling Price";
30
            ENDFIX
31
            ENDFIX
32
         ENDFIX
33
    ENDFIX
34
35
36
    // Generates and Launches Business Rule
    println (CalcScript)
   return CalcScript
```





Conslidate Data Faster!

Simple Form: Plan Volume - Enhanced



Action Menus Alias Tables Dimensions Forms

Action Menus Alias Tables Dimensions Forms Rules

Data Integration I Data Maps				<u>C</u> reate <u>R</u> efresh
Search Q All Sources O All Targets				5
Name	Source	Target	Modified	Actions
Revenue to OEP_FS	Plan2	EPBCS : OEP_FS	4/1/20	

Properties Layout Other Options Business Rules

