ECL Builder

# Installation of the code

1. Go to <https://github.com/infosys-hpcc/ECLBuilderPackaged>
2. Clone/Download the project.
3. Run the startup.bat file
4. The application gets started.

# ECL Builder – Features (Steps)

1. Login to eclBuilder with the valid credentials (username and password)
2. Click on **Preferences** button and set the cluster configuration details (ip, port, username, password) and click **Continue** button

## Creating a new builder

1. Click on **New ECL Builder** button and a popup opens
2. Provide a proper builder name and click **Continue**
3. A new builder with the name provided gets opened as a new tab.
4. Browse through the **dataset tree** on the left hand side to select the dataset that you want to work on.
5. Select the fields that you want to view(vertical filter)
6. Drag the dataset and drop it to the right hand side (i.e., editor)
7. The ECL code gets generated for the selected dataset.
8. Click on **Run** button to view the output

## Output

1. Output gets displayed in the Outputs tab as similar to that of in ECL Watch
2. To download the output as CSV file, click on **Download** button
3. To view the output in pivot manner, click **View Pivot** button
4. Pivot View of Data popup opens
5. Select the desired pivot table option and the aggregate function from the drop down menu
6. Drag and drop the required fields in the x and y axis to view the desired pivot chart

## Import Datasets

1. Click on the import button in the dataset Tree(left hand side)
2. Import window opens
3. Click on Upload button to browse the dataset file (.csv) to be uploaded
4. Provide the delimiter details (i.e., comma (,), pipeline (|)...)
5. Provide the logical file name in the respective textbox
6. Check for whether header row is present or not.
7. Provide the details of the data type of the fields.
8. Click on **Spray** button
9. If the file gets sprayed, the message ‘File sprayed successfully’ gets displayed

## Actions

1. To do some actions with the dataset such as SORT, JOIN, etc. click on **Actions** button and select the desired action

### JOIN

1. Join action can be done only if we have two or more datasets
2. Join window opens
3. Drag and drop the logical files from the left side and place it in the desired field as left file and right file
4. Provide a proper join condition and join name
5. Select the join type from the drop down
6. Click on **Submit** button

### SORT

1. Sort Window opens
2. Select the dataset to be sorted
3. Respective fields to the selected dataset gets displayed
4. Select the columns on which the dataset to be sorted
5. Select whether the dataset needs to be distributed locally or globally in the radio box provided
6. Click on **Submit** button

### DISTRIBUTE

1. Distribute Window opens
2. Select the dataset to be distributed
3. Respective fields to the selected dataset gets displayed
4. Select the columns on which the dataset to be distributed
5. Click on **Submit** button

### DEDUP

1. Dedup Window opens
2. Select the dataset on which Dedup should be done
3. Respective fields to the selected dataset gets displayed
4. Select the columns on which the dedup(remove the duplicate values) to be done
5. Select whether the dataset needs to be distributed locally or globally in the radio box provided
6. Click on **Submit** button

### SAMPLING

1. Sampling Window opens
2. Select the dataset
3. Enter the Sampling Interval
4. Enter the Ordinal Number for Sampling
5. Click on **Submit** button
6. After doing the actions click on Run button to view the output
7. All the output corresponding the actions are displayed as separate tabs in the Output Tab Page

## Editing an existing builder

1. To edit an existing builder, in the Browse builders page, click on the **Edit** icon corresponding to the builder to be edited
2. The Builder with the previously saved actions gets displayed and the user can edit now

## Cloning an existing builder

1. To clone an existing builder, in the Browse builders page, click on the **clone** icon corresponding to the builder to be cloned
2. A new popup opens
3. Provide a new name for the builder that is cloned

## Builder History

1. While editing a builder or when the builder is run once, the Builder History tab gets enabled
2. In the builder history tab, user can see the workunits that are run previously in that builder.
3. To view a particular workunit, click on the View tab corresponding to the workunit
4. The output of that corresponding workunit gets opened as a tab with name of the **workunitID**
5. User can also see the ECL code that is generated for that workunit
6. User can also download the output or view as pivot.

## Deleting an existing builder

1. To delete an existing builder, click on the **delete** icon corresponding to the builder to be deleted