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SmartInternz

Assignment-2

Dataset : Challengers.csv

Overview:

The screenshot shows the IBM Watson Studio interface. The top navigation bar includes the IBM Watson Studio logo, a search bar, and user account information. The main content area is titled 'Assets' and shows a list of assets. The 'challengers.csv' dataset is highlighted, showing its name, type (CSV), and last modified date (2 weeks ago). The left sidebar shows the 'Assets' tab selected, with a list of asset types including Data, Flows, and Saved models. The right sidebar shows the 'Data' tab selected, with a table of data rows.

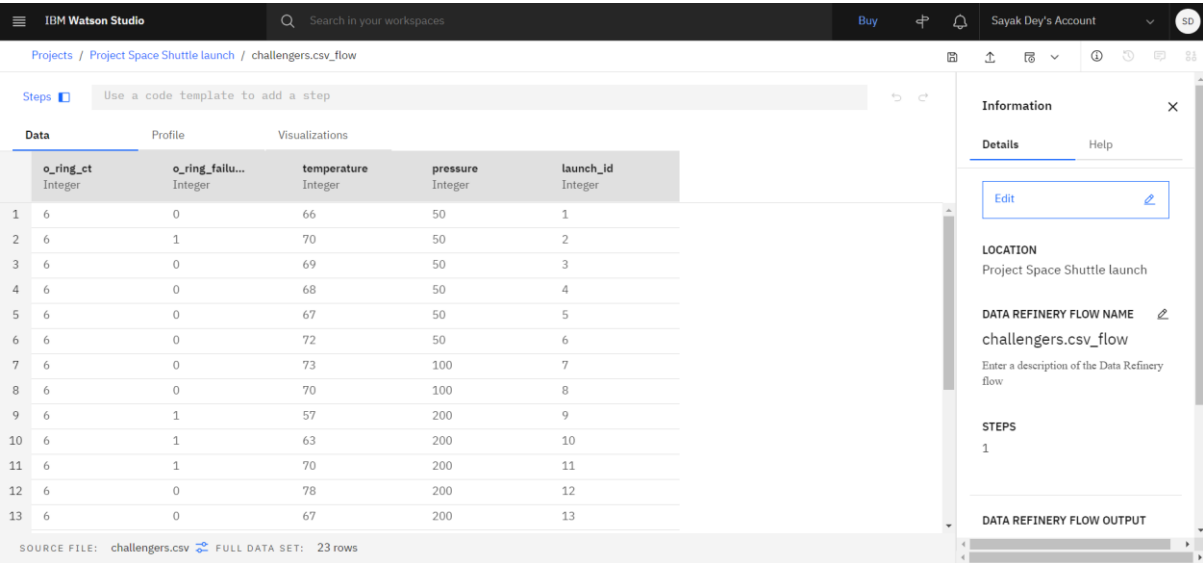
Name	Last modified
challengers.csv	2 weeks ago
CSV	Sayak Dey (You)

Uploaded Dataset:

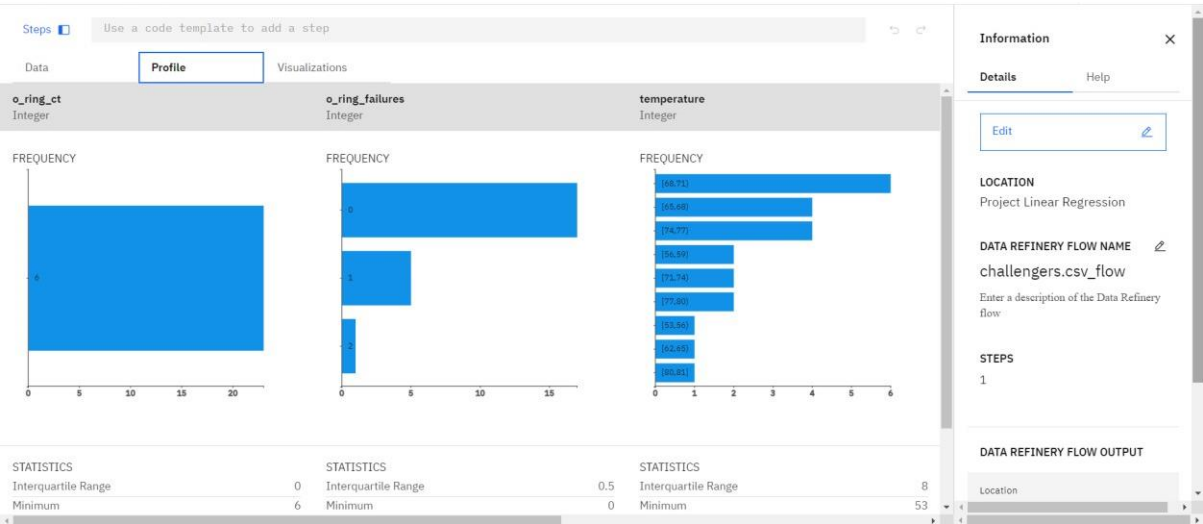
The screenshot shows the IBM Watson Studio interface. The top navigation bar includes the IBM Watson Studio logo, a search bar, and user account information. The main content area is titled 'Preview' and shows a table of data rows. The table has 5 columns: o_ring_ct, o_ring_failures, temperature, pressure, and launch_id. The data is sorted by launch_id. The right sidebar shows the 'Information' tab selected, with details about the dataset, including its name, description, tags, creator, and usage.

o_ring_ct	o_ring_failures	temperature	pressure	launch_id
6	0	66	50	1
6	1	70	50	2
6	0	69	50	3
6	0	68	50	4
6	0	67	50	5
6	0	72	50	6
6	0	73	100	7
6	0	70	100	8
6	1	57	200	9

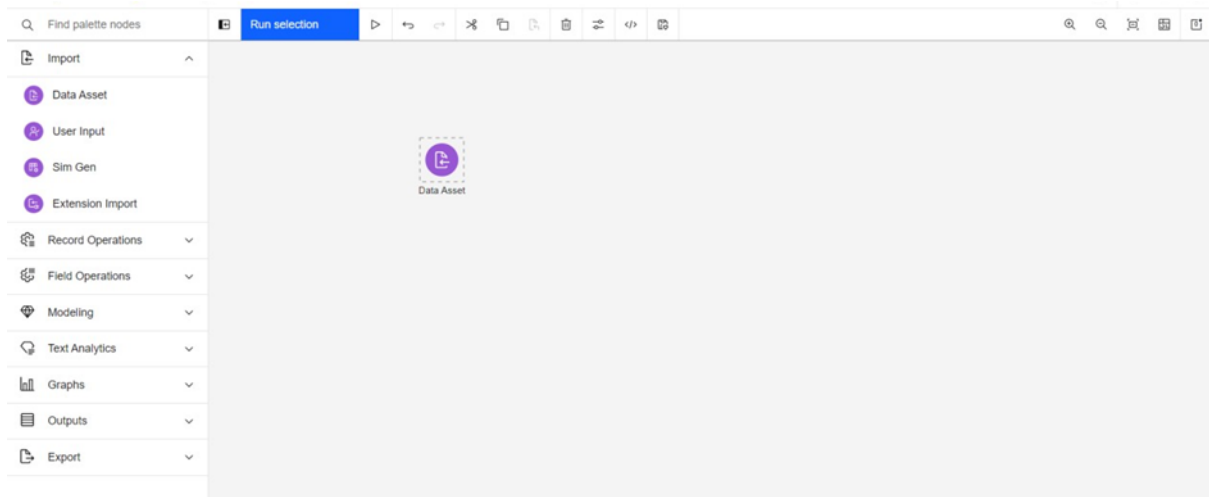
Data refinery Flow:



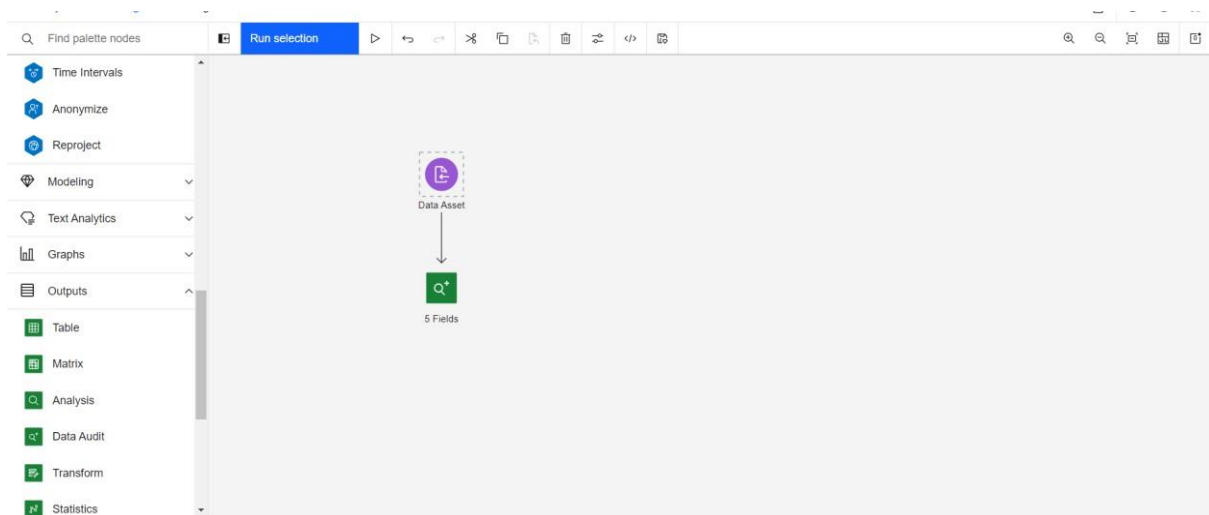
Data Profile:



Dataset Imported to SPSS Modeler flow :



Data Audit:



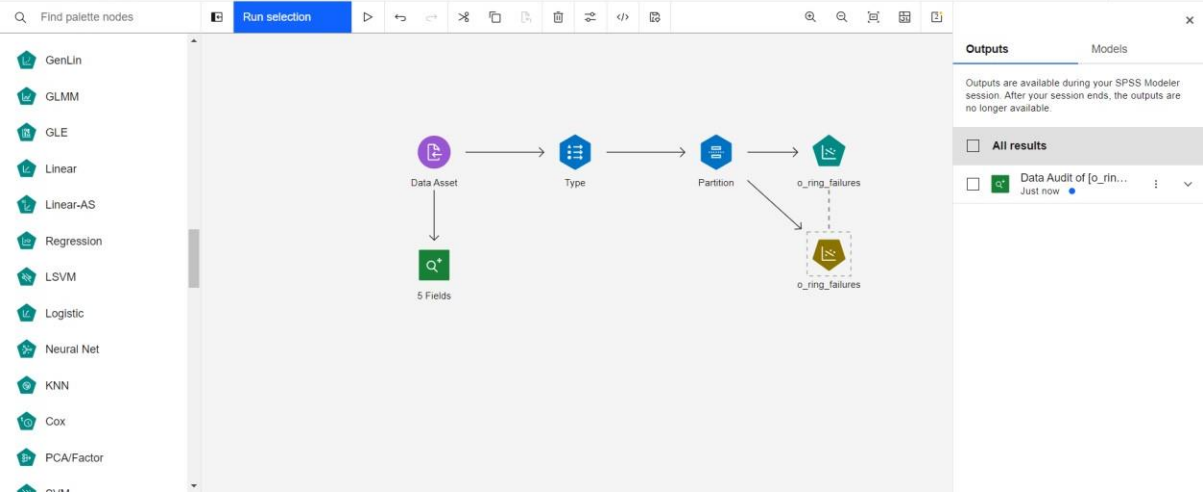
Data Audit Details:

View Output: Data Audit of [o_ring_ct o_ring_failures temperature pressure launch_id]

Field	Graph	Measurement	Min	Max	Mean	Std. Dev	Skewness	Unique	Valid
1		Continuous	6	6	6	0	--	--	23
2		Continuous	0	2	0.304	0.559	1.735	--	23
3		Continuous	53	81	69.565	7.057	-0.654	--	23
4		Continuous	50	200	152.174	68.221	-0.791	--	23
5		Continuous	1	23	12	6.782	0	--	23

Field	Measurement	Outliers	Extremes	Action	Impute Missing	Method	% Complete	Valid Records	Null Value	Empty String
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Regression Model flow:



View Model:

View Model: o_ring_failures

Regression

EVALUATION

Model Summary

ANOVA

Coefficients

MODEL VIEWER

Build Settings

Training Summary

Model Summary ⓘ

	1
R	0.766 [1]
R Square	0.587
Adjusted R Square	0.561
Std. Error of the Estimate	0.402

[1] Predictors: (Constant), [1], temperature

View Model: o_ring_failures

Regression

EVALUATION

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ANOVA ⓘ

	1		
	Regression	Residual	Total
Sum of Squares	4.243	2.034	6.278
df	2.000	15.000	17.000
Mean Square	2.122	0.136	
F	15.645		
Sig.	0.000		

View Model: o_ring_failures

Regression

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Coefficients

		1		
		(Constant)	temperature	pressure
Unstandardized Coefficients	B	4.181	-0.060	0.003
	Std. Error	0.832	0.012	0.001
Standardized Coefficients	Beta		-.763	0.298
t		5.025	-5.194	2.027
Sig.		0.000	0.000	0.061
Fraction Missing Info.				

Output:

View Output: Table (7 fields, 23 records)

Compare

	o_ring_ct	o_ring_failures	temperature	pressure	launch_id	Partition	SE-o_ring_failures
1	6	0	66	50	1	1_Training	0.587
2	6	1	70	50	2	1_Training	0.345
3	6	0	69	50	3	1_Training	0.406
4	6	0	68	50	4	2_Testing	0.466
5	6	0	67	50	5	1_Training	0.527
6	6	0	72	50	6	1_Training	0.224
7	6	0	73	100	7	1_Training	0.164
8	6	0	70	100	8	1_Training	0.345
9	6	1	57	200	9	1_Training	1.131
10	6	1	63	200	10	1_Training	0.769
11	6	1	70	200	11	1_Training	0.345
12	6	0	78	200	12	1_Training	-0.139
13	6	0	67	200	13	2_Testing	0.527
14	6	2	53	200	14	1_Training	1.373