

**List of eCAAT Ent Functions with Brief Description**

No.	Panel	Menu (M)	Sub Menu (SM)	Function (F)	Tool Tips / Brief Descriptions	Type
1	Investigate				Investigate refers to observing or inquiring the data in detail. This involves systematic examination of data by making a detailed inquiry or search to discover facts and insights to be able to come to a conclusion.	P
2	Investigate	Analysis			Analyse key features of data using various types of analysis such as Pareto, ABC, Relative size and Max. Factor.	M
3	Investigate	Analysis	Classifier		Groups items as per statistical classification (on x and y axis) and displays group of items such as quadrant, percentile, cluster or pattern.	SM
4	Investigate	Analysis	Classifier	Quadrant	Displays items in four quadrants as per the specified percentage for each category.	F
5	Investigate	Analysis	Classifier	Percentile	Displays items in specific percentages as per default/specific percentage given.	F
6	Investigate	Analysis	Classifier	Cluster	Displays summary of groups of data from selected set of 2 columns such that each cluster has data of similar characteristics as specified.	F
7	Investigate	Analysis	Classifier	Pattern	Displays in selected ascending/descending order (based on count/sum/product) the summary of groups of data.	F
8	Investigate	Analysis	Stratum		Displays results as per stratified data of Numeric, Date and Character fields.	SM
9	Investigate	Analysis	Stratum	Numeric	Groups numeric data and displays the data in different tabs for each strata.	F
10	Investigate	Analysis	Stratum	Date	Groups date-related data and displays the data in different tabs for each strata.	F
11	Investigate	Analysis	Stratum	Character	Groups character-related data and displays the data in different tabs for each strata.	F
12	Investigate	Analysis	Comparitive		Displays comparitive results based on selected worksheets, columns, files, multiple files or based on stratified data of Numeric, Date and Character fields.	SM
13	Investigate	Analysis	Comparitive	CompareNColumn	Compares all values of two selected columns and displays differences between cells, rows added or deleted.	F
14	Investigate	Analysis	Comparitive	By Worksheets	Compares all values of two selected worksheets and displays differences between cells, rows added or deleted.	F
15	Investigate	Analysis	Comparitive	By Columns	Displays the count, sum/difference of two or more similar columns from same worksheets with options to see results of different types of comparison in a separate workbook.	F
16	Investigate	Analysis	Comparitive	By Files	Displays the count, sum/difference of two or more similar columns from two different worksheets with options to see results of different types of comparison in a separate workbook.	F
17	Investigate	Analysis	Comparitive	By Multiple Files	Displays the count, sum/difference of two or more similar columns from more than two different worksheets with options to see results of different types of comparison in a separate workbook.	F
18	Investigate	Analysis	Comparitive	By Value	Displays the count, sum/difference for each of the rows for selected numerical columns based on specified columns from two selected worksheets.	F

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19	Investigate	Analysis	Comparitive	By Strata	Displays the count, sum/percentage for each of the specified strata for selected numerical columns from two selected worksheets.	F
20	Investigate	Analysis	Comparitive	By Period	Displays the count, sum/percentage for each of the specified period stratas for selected date columns from two selected worksheets.	F
21	Investigate	Analysis	3D - Reports		Provides options to generate month-wise breakup for various reports such as MIS, Stratify numeric/character/aging and aging on selected intervals.	SM
22	Investigate	Analysis	3D - Reports	MIS	Displays the Month-wise break-up for selected options in MIS reports such as: Day of week, Day of Year, Day of Month, etc.	F
23	Investigate	Analysis	3D - Reports	Stratify Numeric	Displays the Month-wise break-up by Grouping numeric data into different strata based on selected intervals.	F
24	Investigate	Analysis	3D - Reports	Stratify Character	Displays the Month-wise break-up by Grouping character data into different strata based on selected intervals.	F
25	Investigate	Analysis	3D - Reports	Stratify Aging	Displays the Month-wise break-up by Grouping date-related data into different strata based on selected intervals.	F
26	Investigate	Analysis	3D - Reports	Aging	Displays the Month-wise break-up for selected options of ageing intervals.	F
27	Investigate	Analysis	MIS - Reports		Provides options to generate reports with details of MIS, Aging, Day of Week and Quarterly.	SM
28	Investigate	Analysis		MIS	Displays the count, total, minimum, maximum and average of records for the selected period with options to perform further analysis by computing on selected fields/compare with other existing/result fields.	F
29	Investigate	Analysis		Aging	Groups date-related data and displays data in different intervals of data.	F
30	Investigate	Analysis		Day Of Week	Groups and displays data for each day of week in different tabs for each day.	F
31	Investigate	Analysis		Quarterly	Groups and displays data in four separate tabs for each of the quarters.	F
32	Investigate	Analysis		Monthly	Groups and displays data in twelve separate tabs for each of the months.	F
33	Investigate	Analysis		Pareto	Displays items in two separate categories as per the Pareto (80:20) rule/specific percentage given for each category.	F
34	Investigate	Analysis		ABC	Displays items in three separate categories as per the specific percentage given for each category.	F
35	Investigate	Analysis		ABCD	Displays items in four separate categories as per the set criteria of low-low, low-high, high-low and high-high categories.	F
36	Investigate	Analysis		Relative Size Factor	Displays the variation between highest value and second highest value in terms of difference and multiple (difference/second highest value) for specified numeric column. Includes option to display above values based on lowest/second lowest.	F

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No.	Panel	Menu (M)	Sub Menu (SM)	Function (F)	Tool Tips / Brief Descriptions	Type
37	Investigate	Analysis		Max. Variance Factor	Displays variation between maximum and minimum value and the differential factor in multiple (difference/minimum) for specified numeric column. Includes option to display above values for 2nd maximum and 2nd minimum.	F
38	Investigate	Analysis		Compute & Compare	Identify exceptions after computing on selected fields/comparing results with other existing/result fields.	F
39	Investigate	Analysis		Compute & Validate	Perform computations or/and matching on data in selected fields to confirm , validate, identify exceptions or non-conformances as applicable.	F
40	Investigate	Analysis		Compute4Conditions	Displays results with a new column with remarks as applicable and a new column as valid/invalid (meeting/not meeting the conditions) based on compute/compare of selected column(s) and values for single/multiple conditions.	F
41	Investigate	Trendline			Groups items as per trendline for selected group and displays relevant trend values in columns with Sparklines or charts based on results of various types of analysis.	M
42	Investigate	Trendline	Stratify		Displays trendline results as per stratified data of Numeric, Date and Character fields.	SM
43	Investigate	Trendline	Stratify	for Numeric	Displays list of values (trend) in columns for Groups of numeric data as per different strata based on intervals for specified conditions of occurrence or variance with option to display sparklines or chart.	F
44	Investigate	Trendline	Stratify	for Date	Displays list of values (trend) in columns for Groups of date type data as per different strata based on intervals for specified conditions of occurrence or variance with option to display sparklines or chart.	F
45	Investigate	Trendline	Stratify	for Character	Displays list of values (trend) in columns for Groups of character data as per different strata based on intervals for specified conditions of occurrence or variance with option to display sparklines or chart.	F
46	Investigate	Trendline	Stratify	for Aging	Displays list of values (trend) in columns for Groups of aging data as per different strata based on intervals for specified conditions of occurrence or variance with option to display sparklines or chart.	F
47	Investigate	Trendline	Classifier		Displays Trendline results for statistical classification (on x and y axis) for items grouped (count >1 or specified no.) as per quadrant, percentile, cluster or pattern.	SM
48	Investigate	Trendline	Classifier	for Quadrant	Displays list of values (trend) in columns results for range of values for selected quadrants for selected two numeric columns on specified conditions of occurrence or variance with option to display sparklines or chart.	F

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49	Investigate	Trendline	Classifier	for Percentile	Displays list of values (trend) in columns for selected percentile for selected two numeric columns on specified conditions of occurrence or variance with option to display sparklines or chart.	F
50	Investigate	Trendline	Classifier	for Cluster	Displays list of values (trend) in columns for selected cluster for selected two numeric columns for specified conditions of occurrence or variance with option to display sparklines or chart.	F
51	Investigate	Trendline	Classifier	for Pattern	Displays list of values (trend) in columns for selected patterns for selected two numeric columns on specified conditions of occurrence or variance with option to display sparklines or chart.	F
52	Investigate	Trendline	Classification		Displays Trendline results as per statistical classification for items grouped (count >1 or specified no.) as quadrants, percentiles, clusters and patterns.	SM
53	Investigate	Trendline	Classification	for Quadrants	Displays list of values (trend) in columns for selected quadrant for selected columns/group on specified conditions of occurrence or variance with option to display sparklines or charts.	F
54	Investigate	Trendline	Classification	for Percentiles	Displays list of values (trend) in columns for selected percentile for selected columns/group on specified conditions of occurrence or variance with option to display sparklines or chart.	F
55	Investigate	Trendline	Classification	for Clusters	Displays list of values (trend) in columns for selected columns/group of selected cluster on specified conditions of occurrence or variance with option to display sparklines or chart.	F
56	Investigate	Trendline	Classification	for Patterns	Displays list of values (trend) in columns for selected patterns for selected columns/group on specified conditions of occurrence or variance with option of sparklines or chart.	F
57	Investigate	Trendline	Analysis		Displays Trendline results for group (count >1 or specified no.) of records based on outliers, Pareto, ABC, ABCD and Aging analysis.	SM
58	Investigate	Trendline	Analysis	for Crosstab	Displays list of values (trend) in columns for each group of records on specified conditions of occurrence or variance with option to display sparklines or chart.	F
59	Investigate	Trendline	Analysis	for Pivot Column	Displays line chart (sparkline, column, win-lose) or other charts for each of the rows by organising the data in columns based on selected column (pivot) for data in the selected worksheet with options to display statistics (count, average, minimum, maximum, average and MVF) and combining columns with condition applied for count > 1 and/or variance > specified no. (if required).	F
60	Investigate	Trendline	Analysis	for Sparklines	Displays line chart (sparkline, column, win-lose) or other charts for each of the rows in the selected worksheet with options to display statistics (count, average, minimum, maximum, average and MVF) and combining columns with condition applied for count > 1 and/or variance > specified no. (if required).	F

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61	Investigate	Trendline	Analysis	for Outliers	Displays list of values (trend) in columns for results of outlier analysis on specified conditions of occurrence or variance with option to display sparklines or chart.	F
62	Investigate	Trendline	Analysis	for Pareto	Displays list of values (trend) in columns for results of pareto analysis on specified conditions of occurrence or variance with option to display sparklines or chart.	F
63	Investigate	Trendline	Analysis	for ABC	Displays list of values (trend) in columns for results of ABC analysis on specified conditions of occurrence or variance with option to display sparklines or chart.	F
64	Investigate	Trendline	Analysis	for ABCD	Displays list of values (trend) in columns for results of ABCD analysis on specified conditions of occurrence or variance with option to display sparklines or chart.	F
65	Investigate	Trendline	Analysis	for Aging	Displays list of values (trend) in columns for results of aging analysis on specified conditions of occurrence or variance with option to display sparklines or chart.	F
66	Investigate	Trendline	Results		Displays Trendline results for group of records (count >1 or specified no.) based on results of classified, RSF, MVF. Top (X) or MIS Results.	SM
67	Investigate	Trendline	Results	for Classified	Displays list of values (trend) in columns for results of classified function on specified conditions of occurrence or variance with option to display sparklines or chart.	F
68	Investigate	Trendline	Results	for List of Values	Displays list of values (trend) in columns for results of list of values function on specified conditions of occurrence or variance with option to display sparklines or chart.	F
69	Investigate	Trendline	Results	for RSF	Displays list of values (trend) in columns for results of RSF function on specified conditions of occurrence or variance with option to display sparklines or chart.	F
70	Investigate	Trendline	Results	for MVF	Displays list of values (trend) in columns for results of MVF function on specified conditions of occurrence or variance with option to display sparklines or chart.	F
71	Investigate	Trendline	Results	for Top (X)	Displays list of values (trend) in columns for results of Top (X) function on specified conditions of occurrence or variance with option to display sparklines or chart.	F
72	Investigate	Trendline	Results	for MIS	Displays list of values (trend) in columns for results of MIS function on specified conditions of occurrence or variance with option to display sparklines or chart.	F
73	Investigate	Query			Query and analyse based on exceptions, numbers, characters and verify numerical data.	M
74	Investigate	Query		Numeric	Displays numbers which are rounded off, 999, 0 and those which begin and/or end with specific numbers and also blank cells in the selected numeric column.	F
75	Investigate	Query		Character	Displays rows which contains characters that begin and/or end with specified letter(s) or words for single/multiple conditions.	F

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76	Investigate	Query		Exceptions	Displays records based on up to three AND/OR conditions.	F
77	Investigate	Query		List To Find	Displays items for selected list for date, numeric or character fields.	F
78	Investigate	Query		List To Delete	Deletes selected list of rows for date, numeric or character data based on specified conditions and creates two new worksheets: List of deleted rows and List after deletion.	F
79	Investigate	Query		List To Filter	Filters/Extracts & Displays items for selected field for (single/multiple inputs) of date, numeric or character types.	F
80	Investigate	Query		Filter & Extract	Displays not just rows but the complete voucher details for the specified ledger/field and combination of selected common field(s).	F
81	Investigate	Query		Verify Numbers	Compares two columns digit-by-digit to find missing digits and transposition errors.	F
82	Investigate	Query		Dynamic Query	Displays specific records based on the selected values/ condition.	F
83	Investigate	Statistics			Advanced statistical functions such as trend analysis, Benford's law, and correlation.	M
84	Investigate	Statistics		Benford's Law	Displays variance in patterns of numeric data based on Benford's Law.	F
85	Investigate	Statistics		Trend Analysis	Displays the difference between actual values and trend-fit values based on patterns of numeric data.	F
86	Investigate	Statistics		Time Series	Displays the difference between actual values and trend-fit values based on patterns of numeric data.	F
87	Investigate	Statistics		Correlation	Displays the linear relationship between two numeric columns.	F
88	Investigate	Relate			Join, append or compare data in two worksheets based on specific criteria.	M
89	Investigate	Relate	Append Files		Displays records after appending multiple worksheets with the matched or unmatched record structure.	SM
90	Investigate	Relate	Append Files	Matched Columns	Displays records after appending multiple worksheets with the same record structure.	F
91	Investigate	Relate	Append Files	Unmatched Columns	Displays records after appending multiple worksheets with the unmatched record structure.	F
92	Investigate	Relate	Validate		Displays results after validating based on existence of dates, matching of totals and duplicates.	SM
93	Investigate	Relate	Validate	Date	Displays date(s) within or beyond specified date from the primary date column after matching with secondary date column. Option to display dates available in secondary column not available in primary.	F
94	Investigate	Relate	Validate	Totals	Matches total of data grouped for two selected columns and displays data for which totals do not tally with option to display details or summary of unmatched items.	F

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95	Investigate	Relate	Validate	Duplicates	Identifies duplicates values by comparing values of two selected columns and displays results as: "duplicates in both" or "unique in both".	F
96	Investigate	Relate		Quick Join	Displays records (fully matched, all in primary, not in primary) by adding selected column (s) from secondary file after matching data from two selected worksheets based on column values.	F
97	Investigate	Relate		Join Files	Displays records after joining data from two worksheets based on common/ uncommon column values.	F
98	Investigate	Relate		Join & Compute	Displays records with sum for selected columns for each of the rows after joining data from two worksheets based on common or uncommon column values.	F
99	Investigate	Analysis		Multiple Join	Identify relationship between 2, 3 or more files based on selected field(s) and display results in horizontal/columnar for various options of matching and/or unmatching.	F
100	Investigate	Relate		Join & Compute Multiple	Identify relationship between 2, 3 or more files based on selected field(s) and compute sum for selected fields and display results in horizontal/columnar for various options of matching/unmatching.	F
101	Investigate	Relate		3-Way Matching	Displays records after joining data from up to three worksheets based on common/ uncommon column values.	F
102	Investigate	Relate		Consolidate	Displays the consolidated count and sum of each distinct value in the selected column in multiple worksheets.	F
103	Investigate	Relate		Collate	Displays records after combining the selected/ specified data from two/more worksheets.	F
104	Investigate	Templates			Provides ready-made templates for verifying patterns of data, authentication check, analytical review and insert multiple copies of selected worksheet.	M
105	Investigate	Relate	Validate		Displays results after validating Patterns, GTSIN, Email Ids, Domains and Mobile Nos based on specified parameters to display valid/invalid or both results.	SM
106	Investigate	Templates	Validate	Patterns	Finds variances in patterns of standard formats such as PAN, TAN, GSTIN, Aadhar numbers and user specified criteria.	F
107	Investigate	Templates	Validate	GSTIN	Displays whether selected single GSTIN or multiple GSTIN as per selected column is valid/invalid and provides specific category of assessee.	F
108	Investigate	Templates	Validate	Email Ids	Displays whether email ids in the selected column(s) are valid/invalid by verifying the format & domain and provides options to extract them in one/two worksheets alongwith domain summary.	F
109	Investigate	Templates	Validate	Domains	Displays whether domains in the selected column(s) are valid/invalid by verifying domain name from registry and provides options to extract them in one/two worksheets alongwith domain summary.	F



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110	Investigate	Templates	Validate	Mobile Nos	Displays whether the mobile nos. in the selected column are verifying whether they are valid/invalid based on length (10) ignoring starting digit of 0, 91 and + symbol and considering whether the starting nos is from 6 to 9 only. Users can extract all valid nos. in a separate file.	F
111	Investigate	Templates	Fin. Anal. Module		Computes Altman Z-Score and Beneish M-Score based on given inputs as per pre-defined formula.	SM
112	Investigate	Templates	Fin. Analysis Module	Altman Z-Score	Computes Altman Z-score based on given inputs as per pre-defined formula.	F
113	Investigate	Templates	Fin. Analysis Module	Beneish M-Score	Computes Beneish M-score based on given inputs as per pre-defined formula.	F
114	Investigate	Templates		eLambda	Provides option to perform selected functions of eCAAT on multiple workbooks/worksheets at one go and displays results in worksheets/workbook. This can be performed for any of the displayed functions of eCAAT which can be selected one at a time as required.	F
115	Investigate	Templates		Luhn Algorithm	Finds records that are in conformance to Luhn Algorithm for credit card numbers (12 to 19 digits) in the selected columns.	F
116	Investigate	Templates		Authentication Check	Displays the records by joining two worksheets based on common field from single/multiple workbook and on specific condition.	F
117	Investigate	Templates		Existence Check	Verifies whether values in selected primary columns exist in selected secondary columns and provides option to display rows with values which exist or non-exists in both. Display results in result form in remarks column with "available" or "not available"	F
118	Investigate	Templates		Analytical Review	Displays the difference between values of two numeric columns in number and in percentage.	F
119	Investigate	Templates		Back-Dated Entries	Identify back-dated entries, duplicates/gaps based on selected numeric/alphanumeric field related to date field based on original/sorted order from active/selected workbook and display results as comments or new worksheet.	F
120	Investigate	Templates		Debit and Credit Column	Combines or segregates columns into debit and credit columns or a single column respectively.	F
121	Investigate	Templates		Insert Multiple Copies	Inserts multiple copies of the selected range/ entire worksheet into the workbook.	F
122	Investigate	Templates		Compute Age	Compute age based on current date/ specified date on the selected date column.	F