

**List of Auto S-CAAT Functions with Brief Descriptions**

No.	Panel	Menu	Function	Tool Tips/Brief Description	Type
1	Connect To Database			Provides option to connect to SQL Database to get access to relevant data from the tables. It also has functions to import data from Excel and SQL.	P
2	Connect To Database		GetData	Selects an SQL database.	F
3	Connect To Database		Tables	Selects a table from the selected database to perform sCAAT functions.	F
4	Connect To Database		Close Conn.	Close all SCAAT connections with the current database.	F
5	By Criteria			Performs the selected list of S-CAAT functions, in succession from the selected functions of specific panel.	P
6	By Criteria	Profile		Performs Stratification - Numeric, Date & Character, Summarization - Quick & Keyfield, Totalling - Sum, Count & Cum./ Sub Total and Top/ Last X functions, in succession as specified and displays results in Database/Tables.	M
7	By Criteria	Profile	Stratify - Numeric	Groups numeric data into different strata based on intervals.	F
8	By Criteria	Profile	Stratify - Date	Groups dates into different strata based on intervals.	F
9	By Criteria	Profile	Stratify - Character	Groups characters into different strata based on intervals.	F
10	By Criteria	Profile	Stratify - Aging	Computes difference of selected two date columns & stratifies on specified intervals for computed date difference.	F
11	By Criteria	Profile	Summarize - Quick	Groups each distinct value in a numeric column and displays corresponding count and sum with options to perform further analysis by computing on selected fields/compare with other existing/result fields to identify exceptions.	F
12	By Criteria	Profile	Summarize - KeyField	Groups each distinct value in a numeric column and displays corresponding count and sum. Data is displayed based on selected keyfield.	F
13	By Criteria	Profile	Totals - Cum./Sub Total	Displays cumulative total or sub-total for the selected numeric column.	F
14	By Criteria	Profile	Classification - Quadrants	Displays items in four quadrants as per the specified percentage for each category for selected two numeric columns.	F
15	By Criteria	Profile	Classification - Percentiles	Displays items in specific percentages as per default/specified percentage for a selected column with option to group by a specific field.	F
16	By Criteria	Profile	Classification - Clusters	Displays summary of data for selected column with option to group by specified field so that each cluster has data of similar characteristics as specified.	F
17	By Criteria	Profile	Classification - Patterns	Displays in selected ascending/descending order (based on count/sum/product) the summary of groups of data for selected column with option to group by specific field.	F

**List of Auto S-CAAT Functions with Brief Descriptions**

No.	Panel	Menu	Function	Tool Tips/Brief Description	Type
18	By Criteria	Profile	Classify	Groups each distinct value in a character column and displays corresponding count/ sum with option to display average, min. & max. value for each group with options to perform further analysis by computing on selected fields/compare with other existing/result fields.	F
19	By Criteria	Profile	Group By	Groups each distinct value for selected column (s) (character/numeric/date) and displays corresponding count/ sum with option to display average, min. & max. value for each group with options to perform further analysis by computing on selected fields/compare with other existing/result fields.	F
20	By Criteria	Profile	Remarks4Conditions	Add new column(s) with remarks added (single/multiple) based on manual entry or auto selection, for single or multiple conditions for specified column(s).	F
21	By Criteria	Profile	Aging	Groups and totals all records that are within and beyond the aging date based on the specified aging intervals.	F
22	By Criteria	Profile	Top / Last X	Displays the topmost or bottommost 'x' number of records in a column.	F
23	By Criteria	Profile	Column Statistics	Displays column-wise statistics of numeric, date and character data.	F
24	By Criteria	Profile	Column Properties	Shows column properties such as number of valid cells, blank cells, total cells and data type of all columns.	F
25	By Criteria	Profile	Highlight - -ve / Unique Numbers	Highlights negative numbers / unique values in the selected numeric columns.	F
26	By Criteria	Profile	Highlight - Specific Value(s)	Highlights cells with the specified values in the current Table.	F
27	By Criteria	Profile	Highlight - Function Errors	Highlights function errors in the current Table.	F
28	By Criteria	Profile	Highlight - Inconsistent Formula (s)	Highlights cells that have computations based on inconsistent formula compared to formula of first row of data.	F
29	By Criteria	Profile	Highlight - Inconsistent Date Format	Highlights cells that have dates which are not in conformance with the selected date format.	F
30	By Criteria	Profile	Highlight - Inconsistent Data Format	Highlights cells that have dates which are not in conformance with the selected data format.	F
31	By Criteria	Profile	Highlight - Cells with Space(s)	Highlights cells which have blanks or spaces or both (missing data) for specified columns.	F
32	By Criteria	Analyse		Performs Duplicates, Gaps, Outliers - By Mask , By Bound , By Numeric, Format, Mandatory, Date & Numeric Sequence, Fuzzy Match and Split Sheet functions, in succession as specified and displays results in Database/Tables.	M

**List of Auto S-CAAT Functions with Brief Descriptions**

No.	Panel	Menu	Function	Tool Tips/Brief Description	Type
33	By Criteria	Analyse	Duplicates - Identify Duplicates	Displays all duplicate records in the selected columns.	F
34	By Criteria	Analyse	Duplicates - Identify Unique	Displays all records that are unique in the selected columns.	F
35	By Criteria	Analyse	Duplicates - Remove Duplicates	Displays all unique records and one record from each of the duplicate records.	F
36	By Criteria	Analyse	Duplicates - Same Same Different	Displays records where the values in one/more selected columns are same but different in another column.	F
37	By Criteria	Analyse	Duplicates - In Same Row	Displays duplicate values (character/ date/ numeric) in the same row.	F
38	By Criteria	Analyse	Gaps - Numeric	Displays all successive numeric records whose difference is within the given interval.	F
39	By Criteria	Analyse	Gaps - Date	Displays all successive date records whose difference is within the given interval.	F
40	By Criteria	Analyse	Gaps - Character	Displays all successive alphanumeric records whose difference is within the given character mask.	F
41	By Criteria	Analyse	Outliers - By Mask	Displays records that do not match a defined mask where 'C' represents characters and 'N' represents numbers.	F
42	By Criteria	Analyse	Outliers - By Bound	Displays records whose mask matches the selected condition. Also finds records that match a value at specific positions.	F
43	By Criteria	Analyse	Outliers - By Numeric	Displays records that exceeds 'x' number of times, the average/standard deviation of the selected numeric column.	F
44	By Criteria	Analyse	Format	Identifies the format of each row in the selected column as 'C' for characters and 'N' for numbers with options to show field length and identify exceptions.	F
45	By Criteria	Analyse	Mandatory Data	Displays rows with cells which have blanks or spaces or both (missing data) for specified columns,	F
46	By Criteria	Analyse	Date Sequence	Finds the difference between two successive dates.	F
47	By Criteria	Analyse	Numeric Sequence	Displays missing values in a numeric sequence.	F
48	By Criteria	Analyse	Identify Changes	Compares two Tables cell-by-cell and highlights all changes or non-changes and displays comments with changes or a list of changes.	F
49	By Criteria	Analyse	Fuzzy Match - Arrange	Displays similarities in two values by eliminating transposition.	F
50	By Criteria	Analyse	Fuzzy Match - Near	Compares two values or columns and returns true if the specified difference between two fields is equal to or less than the specified difference otherwise returns false.	F

**List of Auto S-CAAT Functions with Brief Descriptions**

No.	Panel	Menu	Function	Tool Tips/Brief Description	Type
51	By Criteria	Analyse	Fuzzy Match - Normalize	Removes special characters, multiple spaces, leading and trailing spaces in a column.	F
52	By Criteria	Analyse	Fuzzy Match - Similar	Compares two values and applies transformation to find strings that are similar.	F
53	By Criteria	Analyse	Fuzzy Match - Soundex/SoundLike	Soundex displays the four-digit Soundex code for selected/ specified data from columns to identify exact/ approximate phonetic similarities. SoundsLike displays similarity of words from two columns based on exact/ approximate Soundex codes.	F
54	By Criteria	Analyse	Split Sheet - By Group	Splits the current Table into multiple Tables based on each distinct value.	F
55	By Criteria	Analyse	Split Sheet - By Date	Splits the current Table into multiple Tables based on the selected period.	F
56	By Criteria	Analyse	Split Sheet - By Segment	Displays the specified split value of a column based on the selected delimiter.	F
57	By Criteria	Analyse	Split Sheet - By Value(s)	Splits the current Table into multiple Tables based on specified values.	F
58	By Criteria	Analyse	Split Sheet - By Delimiter	Splits values of selected column(s) based on selected one or two delimiters with specific no. of splits (auto/manual) with option to display results of split values separately in new columns or rows (with fill from above).	F
59	By Criteria	Analyse	Split Sheet - By Date/Time	Splits combined date and time column into separate columns of date and/or time as specified.	F
60	By Criteria	Analyse	Split Sheet - By Columns	Splits the current Table into specific number of Tables and creates new Tables with common and unique cols as specified.	F
61	By Criteria	Investigate		Performs Classifier, Stratum, Comparative, Analysis, 3D-Reports, Query, Statistics - Bendford's Law, Append File, Validate, relate and Templates functions, in succession as specified and displays results in Database/Tables.	M
62	By Criteria	Investigate	Classifier - Quadrant Analysis	Displays items in four quadrants as per the specified percentage for each category.	F
63	By Criteria	Investigate	Classifier - Percentile Analysis	Displays items in specific percentages as per default/specific percentage given.	F
64	By Criteria	Investigate	Classifier - Cluster Analysis	Displays summary of groups of data from selected set of 2 columns such that each cluster has data of similar characteristics as specified.	F
65	By Criteria	Investigate	Classifier - Pattern Analysis	Displays in selected ascending/descending order (based on count/sum/product) the summary of groups of data.	F
66	By Criteria	Investigate	Stratum - Numeric	Groups numeric data and displays the data in different tabs for each strata.	F
67	By Criteria	Investigate	Stratum - Date	Groups date-related data and displays the data in different tabs for each strata.	F

**List of Auto S-CAAT Functions with Brief Descriptions**

No.	Panel	Menu	Function	Tool Tips/Brief Description	Type
68	By Criteria	Investigate	Stratum - Character	Groups character-related data and displays the data in different tabs for each strata.	F
69	By Criteria	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
70	By Criteria	Investigate	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
71	By Criteria	Investigate	3D-Reports - Stratify Numeric	Displays the Month-wise break-up by Grouping numeric data into different strata based on selected intervals.	F
72	By Criteria	Investigate	3D-Reports - Stratify Character	Displays the Month-wise break-up by Grouping character data into different strata based on selected intervals.	F
73	By Criteria	Investigate	3D-Reports - Stratify Aging	Displays the Month-wise break-up by Grouping date-related data into different strata based on selected intervals.	F
74	By Criteria	Investigate	3D-Reports - Aging	Displays the Month-wise break-up for selected options of ageing intervals.	F
75	By Criteria	Investigate	Analysis - Pareto Analysis	Displays items in two separate categories as per the Pareto (80:20) rule/specific percentage given for each category.	F
76	By Criteria	Investigate	Analysis - ABC Analysis	Displays items in three separate categories as per the specific percentage given for each category.	F
77	By Criteria	Investigate	Analysis - ABCD Analysis	Displays items in four separate categories as per the set criteria of low-low, low-high, high-low and high-high categories.	F
78	By Criteria	Investigate	Analysis - Aging	Groups date-related data and displays data in different intervals of data.	F
79	By Criteria	Investigate	Analysis - Day Of Week Analysis	Groups and displays data for each day of week in different tabs for each day.	F
80	By Criteria	Investigate	Analysis - Quarterly Analysis	Groups and displays data in four separate tabs for each of the quarters.	F
81	By Criteria	Investigate	Analysis - Monthly Analysis	Groups and displays data in twelve separate tabs for each of the months.	F
82	By Criteria	Investigate	Analysis - RSF	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
83	By Criteria	Investigate	Analysis - MVF	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

**List of Auto S-CAAT Functions with Brief Descriptions**

No.	Panel	Menu	Function	Tool Tips/Brief Description	Type
84	By Criteria	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
85	By Criteria	Investigate	Query - Character	Displays characters that begin and/or end with specific letters or words.	F
86	By Criteria	Investigate	Query - Exception	Displays records based on up to three AND/OR conditions.	F
87	By Criteria	Investigate	Query - List To Find	Displays items for selected list for date, numeric or character fields.	F
88	By Criteria	Investigate	Query - List To Delete	Deletes selected list of rows for date, numeric or character data based on specified conditions and creates two new Tables: List of deleted rows and List after deletion.	F
89	By Criteria	Investigate	Query - Verify Numbers	Compares two columns digit-by-digit to find missing digits and transposition errors.	F
90	By Criteria	Investigate	Statistics - Bendford's Law	Displays variance in patterns of numeric data based on Benford's Law.	F
91	By Criteria	Investigate	Append File - Matched Columns	Displays records after appending multiple Tables with the same record structure.	F
92	By Criteria	Investigate	Append File - Unmatched Columns	Displays records after appending multiple Tables with the unmatched record structure.	F
93	By Criteria	Investigate	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	By Criteria	Investigate	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
95	By Criteria	Investigate	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	By Criteria	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 Tables based on column values.	F
97	By Criteria	Investigate	Relate - Join Files	Displays records after joining data from two Tables based on common/ uncommon column values.	F
98	By Criteria	Investigate	Relate - Join & Compute	Displays records with sum for selected columns for each of the rows after joining data from two Tables based on common/ uncommon column values.	F
99	By Criteria	Investigate	Relate - 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/unmatching.	F

### List of Auto S-CAAT Functions with Brief Descriptions

No.	Panel	Menu	Function	Tool Tips/Brief Description	Type
100	By Criteria	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	By Criteria	Investigate	Relate - 3-Way Matching	Displays records after joining data from up to three Tables based on common/uncommon column values.	F
102	By Criteria	Investigate	Relate - Consolidate	Displays the consolidated count and sum of each distinct value in the selected column in multiple Tables.	F
103	By Criteria	Investigate	Relate - Collate	Displays records after combining the selected/ specified data from two/more Tables.	F
104	By Criteria	Investigate	Templates - Validate Patterns	Finds variances in patterns of standard formats such as PAN, TAN, GSTIN, Aadhar numbers and user specified criteria.	F
105	By Criteria	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
106	By Criteria	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 Tables alongwith domain summary.	F
107	By Criteria	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 Tables alongwith domain summary.	F
108	By Criteria	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
109	By Criteria	Investigate	Templates - Authentication Check	Displays the records by joining two Tables based on common field from single/multiple Database and on specific condition.	F
110	By Criteria	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
111	By Criteria	Investigate	Templates - Analytical Review	Displays the difference between values of two numeric columns in number and in percentage.	F
112	By Criteria	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 Database and display results as comments or new Table.	F
113	By Criteria	Investigate	Templates - Debit and Credit Column	Combines or segregates columns into debit and credit columns or a single column respectively.	F

**List of Auto S-CAAT Functions with Brief Descriptions**

No.	Panel	Menu	Function	Tool Tips/Brief Description	Type
114	By Criteria	Sampling		Performs Systematic, Random, Stratified - Numeric, Date & Character, Summarized, Classified, Aging, MIS, Outliers, Pareto Analysis, ABC Analysis, ABCD Analysis and Quadrant Analysis functions, in succession as specified and displays results in Database/Tables.	M
115	By Criteria	Sampling	Systematic	Displays every nth record based on the interval given.	F
116	By Criteria	Sampling	Random	Display specific number of records picked at random/Top 'x' based on number/percentage.	F
117	By Criteria	Sampling	TotCount	Displays specific number of records from total count of records with option to select based on Groups.	F
118	By Criteria	Sampling	Analysis: Numeric	Displays specific number of records at random selected based on numeric analysis of specified columns.	F
119	By Criteria	Sampling	Analysis: Character	Displays specific number of records at random selected based on Character analysis of specified columns.	F
120	By Criteria	Sampling	Analysis: Statistics	Displays specific number of records at random for each of the columns as selected.	F
121	By Criteria	Sampling	Analysis: Exceptions	Displays specific number of records at random for specified list of exceptions.	F
122	By Criteria	Sampling	Analysis - Outliers	Displays specific no. of records selected at random from results of Outlier function.	F
123	By Criteria	Sampling	List of Values	Displays specific number of records at random selected based on list of specified values for selected column.	F
124	By Criteria	Sampling	Duplicates	Displays specific number of records at random for each set of results of duplicates.	F
125	By Criteria	Sampling	Stratified - Numeric	Groups numeric data into different strata based on intervals. Records from any strata can be randomly picked based on a specified number or percentage.	F
126	By Criteria	Sampling	Stratified - Date	Groups date format data into different strata based on intervals. Records from any strata can be randomly picked based on a specified number or percentage.	F
127	By Criteria	Sampling	Stratified - Character	Groups character format data into different strata based on intervals. Records from any strata can be randomly picked based on a specified number or percentage.	F
128	By Criteria	Sampling	Stratified - Aging	Groups computed age difference of two date columns data into different strata based on specified intervals. Records from any strata can be randomly picked based on a specified number or percentage.	F



**List of Auto S-CAAT Functions with Brief Descriptions**

No.	Panel	Menu	Function	Tool Tips/Brief Description	Type
129	By Criteria	Sampling	Classification - Quadrants	Displays specific no. of records selected at random for four separate quadrants based on results of two numeric columns.	F
130	By Criteria	Sampling	Classification - Percentiles	Displays specific no. of records selected at random for selected percentile(s) data for two selected fields.	F
131	By Criteria	Sampling	Classification - Clusters	Displays specific no. of records selected at random for selected cluster(s) data for two selected fields.	F
132	By Criteria	Sampling	Classification - Patterns	Displays specific no. of records selected at random for selected pattern(s) data for two selected fields.	F
133	By Criteria	Sampling	Summarized	Displays specific no. of records selected at random for summarised results.	F
134	By Criteria	Sampling	Classified	Displays specific no. of records selected at random for classified results.	F
135	By Criteria	Sampling	Aging Details	Displays specific no. of records selected at random for results of aging function.	F
136	By Criteria	Sampling	MIS Details	Displays specific no. of records selected at random for results of MIS function.	F
137	By Criteria	Sampling	Classifier - Quadrant	Displays specific no. of records selected at random for four separate quadrants.	F
138	By Criteria	Sampling	Classifier - Percentile	Displays specific no. of records selected at random for selected percentile(s) data.	F
139	By Criteria	Sampling	Classifier - Cluster	Displays specific no. of records selected at random for selected cluster(s) data.	F
140	By Criteria	Sampling	Classifier - Pattern	Displays specific no. of records selected at random for selected pattern(s) data.	F
141	By Criteria	Sampling	Pareto Details	Displays specific no. of records selected at random for two separate categories as per the Pareto (80:20) rule/specific percentage.	F
142	By Criteria	Sampling	ABC Details	Displays specific number of records selected at random for three separate percentage categories as per ABC analysis.	F
143	By Criteria	Sampling	ABCD Details	Displays specific number of records selected at random for four separate percentage categories as per ABCD analysis.	F
144	By Criteria	Sampling	RSF Results	Displays specific no. of records selected at random for results generated using Relative Size Factor.	F
145	By Criteria	Sampling	MVF Results	Displays specific no. of records selected at random for results generated using Max. Variance Factor.	F
146	By Criteria	Sampling	Benford's Law	Displays specific no. of records selected at random for results of Benford Analysis.	F

**List of Auto S-CAAT Functions with Brief Descriptions**

No.	Panel	Menu	Function	Tool Tips/Brief Description	Type
147	By Trendline			Perform for Quadrants, Percentiles, Clusters, Patterns, Quadrant Analysis, Percentile Analysis, Cluster Analysis, Pattern Analysis, for Numeric, for Date, for Character, for Aging, for Outliers, for Pareto, for ABC, for ABCD, for Classified, for List To Find, for RSF, for MVF, for Top(X), for MIS, in succession as specified and displays results in Database/Tables.	P
148	By Trendline	Classification		Displays Trendline results as per statistical classification for items grouped (count >1 or specified no.) as quadrants, percentiles, clusters, patterns, Quadrant Analysis, Percentile Analysis, Cluster Analysis, Pattern Analysis in succession as specified and displays results in Database/Tables.	M
149	By 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
150	By 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
151	By 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
152	By 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
153	By Trendline	Classification	for Quadrant Analysis	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
154	By Trendline	Classification	for Percentile Analysis	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
155	By Trendline	Classification	for Cluster Analysis	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
156	By Trendline	Classification	for Pattern Analysis	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

**List of Auto S-CAAT Functions with Brief Descriptions**

No.	Panel	Menu	Function	Tool Tips/Brief Description	Type
157	By Trendline	Analysis		Displays Trendline results for group (count >1 or specified no.) of records based on Cross Tab, Numeric, Date, Character, Aging, Outliers, Pareto, ABC, ABCD and Aging analysis in succession as specified and displays results in Database/Tables.	M
158	By Trendline	Analysis	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
159	By Trendline	Analysis	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
160	By Trendline	Analysis	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
161	By Trendline	Analysis	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
162	By 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
163	By 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
164	By 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
165	By 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
166	By 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
167	By 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 in succession as specified and displays results in Database/Tables.	M

**List of Auto S-CAAT Functions with Brief Descriptions**

No.	Panel	Menu	Function	Tool Tips/Brief Description	Type
168	By 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
169	By Trendline	Results	For List To 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
170	By 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
171	By 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
172	By 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
173	By 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
174	By Functions			Performs the selected list of S-CAAT functions in succession, as specified and displays results in Database/Tables.	P
175	By Functions	Functions		Performs the selected list of S-CAAT functions in succession, as specified from this panel and display results in workbook.	M
176	By Functions	Functions	Stratify - Numeric	Groups numeric data into different strata based on intervals.	F
177	By Functions	Functions	Stratify - Date	Groups dates into different strata based on intervals.	F
178	By Functions	Functions	Stratify - Character	Groups characters into different strata based on intervals.	F
179	By Functions	Functions	Stratify - Aging	Computes difference of selected two date columns & stratifies on specified intervals for computed date difference.	F
180	By Functions	Functions	Summarize - Quick	Groups each distinct value in a numeric column and displays corresponding count and sum with options to perform further analysis by computing on selected fields/compare with other existing/result fields to identify exceptions.	F
181	By Functions	Functions	Summarize - KeyField	Groups each distinct value in a numeric column and displays corresponding count and sum. Data is displayed based on selected keyfield.	F
182	By Functions	Functions	Totals - Cum./Sub Total	Displays cumulative total or sub-total for the selected numeric column.	F

**List of Auto S-CAAT Functions with Brief Descriptions**

No.	Panel	Menu	Function	Tool Tips/Brief Description	Type
183	By Functions	Functions	Classification - Quadrants	Displays items in four quadrants as per the specified percentage for each category for selected two numeric columns.	F
184	By Functions	Functions	Classification - Percentiles	Displays items in specific percentages as per default/specified percentage for a selected column with option to group by a specific field.	F
185	By Functions	Functions	Classification - Clusters	Displays summary of data for selected column with option to group by specified field so that each cluster has data of similar characteristics as specified.	F
186	By Functions	Functions	Classification - Patterns	Displays in selected ascending/descending order (based on count/sum/product) the summary of groups of data for selected column with option to group by specific field.	F
187	By Functions	Functions	Classify	Groups each distinct value in a character column and displays corresponding count/sum with option to display average, min. & max. value for each group with options to perform further analysis by computing on selected fields/compare with other existing/result fields.	F
188	By Functions	Functions	Group By	Groups each distinct value for selected column (s) (character/numeric/date) and displays corresponding count/ sum with option to display average, min. & max. value for each group with options to perform further analysis by computing on selected fields/compare with other existing/result fields.	F
189	By Functions	Functions	Remarks4Conditions	Add new column(s) with remarks added (single/multiple) based on manual entry or auto selection, for single or multiple conditions for specified column(s).	F
190	By Functions	Functions	Aging	Groups and totals all records that are within and beyond the aging date based on the specified aging intervals.	F
191	By Functions	Functions	Top / Last X	Displays the topmost or bottommost 'x' number of records in a column.	F
192	By Functions	Functions	Column Statistics	Displays column-wise statistics of numeric, date and character data.	F
193	By Functions	Functions	Column Properties	Shows column properties such as number of valid cells, blank cells, total cells and data type of all columns.	F
194	By Functions	Functions	Highlight - -ve / Unique Numbers	Highlights negative numbers / unique values in the selected numeric columns.	F
195	By Functions	Functions	Highlight - Specific Value(s)	Highlights cells with the specified values in the current Table.	F
196	By Functions	Functions	Highlight - Function Errors	Highlights function errors in the current Table.	F
197	By Functions	Functions	Highlight - Inconsistent Formula (s)	Highlights cells that have computations based on inconsistent formula compared to formula of first row of data.	F

**List of Auto S-CAAT Functions with Brief Descriptions**

No.	Panel	Menu	Function	Tool Tips/Brief Description	Type
198	By Functions	Functions	Highlight - Inconsistent Date Format	Highlights cells that have dates which are not in conformance with the selected date format.	F
199	By Functions	Functions	Highlight - Inconsistent Data Format	Highlights cells that have dates which are not in conformance with the selected data format.	F
200	By Functions	Functions	Highlight - Cells with Space(s)	Highlights cells which have blanks or spaces or both (missing data) for specified columns.	F
201	By Functions	Functions	Duplicates - Identify Duplicates	Displays all duplicate records in the selected columns.	F
202	By Functions	Functions	Duplicates - Identify Unique	Displays all records that are unique in the selected columns.	F
203	By Functions	Functions	Duplicates - Remove Duplicates	Displays all unique records and one record from each of the duplicate records.	F
204	By Functions	Functions	Duplicates - Same Same Different	Displays records where the values in one/more selected columns are same but different in another column.	F
205	By Functions	Functions	Duplicates - In Same Row	Displays duplicate values (character/ date/ numeric) in the same row.	F
206	By Functions	Functions	Gaps - Numeric	Displays all successive numeric records whose difference is within the given interval.	F
207	By Functions	Functions	Gaps - Date	Displays all successive date records whose difference is within the given interval.	F
208	By Functions	Functions	Gaps - Character	Displays all successive alphanumeric records whose difference is within the given character mask.	F
209	By Functions	Functions	Outliers - By Mask	Displays records that do not match a defined mask where 'C' represents characters and 'N' represents numbers.	F
210	By Functions	Functions	Outliers - By Bound	Displays records whose mask matches the selected condition. Also finds records that match a value at specific positions.	F
211	By Functions	Functions	Outliers - By Numeric	Displays records that exceeds 'x' number of times, the average/standard deviation of the selected numeric column.	F
212	By Functions	Functions	Format	Identifies the format of each row in the selected column as 'C' for characters and 'N' for numbers with options to show field length and identify exceptions.	F
213	By Functions	Functions	Mandatory Data	Displays rows with cells which have blanks or spaces or both (missing data) for specified columns,	F
214	By Functions	Functions	Date Sequence	Finds the difference between two successive dates.	F
215	By Functions	Functions	Numeric Sequence	Displays missing values in a numeric sequence.	F

**List of Auto S-CAAT Functions with Brief Descriptions**

No.	Panel	Menu	Function	Tool Tips/Brief Description	Type
216	By Functions	Functions	Identify Changes	Compares two Tables cell-by-cell and highlights all changes or non-changes and displays comments with changes or a list of changes.	F
217	By Functions	Functions	Fuzzy Match - Arrange	Displays similarities in two values by eliminating transposition.	F
218	By Functions	Functions	Fuzzy Match - Near	Compares two values or columns and returns true if the specified difference between two fields is equal to or less than the specified difference otherwise returns false.	F
219	By Functions	Functions	Fuzzy Match - Normalize	Removes special characters, multiple spaces, leading and trailing spaces in a column.	F
220	By Functions	Functions	Fuzzy Match - Similar	Compares two values and applies transformation to find strings that are similar.	F
221	By Functions	Functions	Fuzzy Match - Soundex/SoundLike	Soundex displays the four-digit Soundex code for selected/ specified data from columns to identify exact/ approximate phonetic similarities. SoundsLike displays similarity of words from two columns based on exact/ approximate Soundex codes.	F
222	By Functions	Functions	Split Sheet - By Group	Splits the current Table into multiple Tables based on each distinct value.	F
223	By Functions	Functions	Split Sheet - By Date	Splits the current Table into multiple Tables based on the selected period.	F
224	By Functions	Functions	Split Sheet - By Segment	Displays the specified split value of a column based on the selected delimiter.	F
225	By Functions	Functions	Split Sheet - By Value(s)	Splits the current Table into multiple Tables based on specified values.	F
226	By Functions	Functions	Split Sheet - By Delimiter	Splits values of selected column(s) based on selected one or two delimiters with specific no. of splits (auto/manual) with option to display results of split values separately in new columns or rows (with fill from above).	F
227	By Functions	Functions	Split Sheet - By Date/Time	Splits combined date and time column into separate columns of date and/or time as specified.	F
228	By Functions	Functions	Split Sheet - By Columns	Splits the current Table into specific number of Tables and creates new Tables with common and unique columns as specified.	F
229	By Functions	Functions	Classifier - Quadrant Analysis	Displays items in four quadrants as per the specified percentage for each category.	F
230	By Functions	Functions	Classifier - Percentile Analysis	Displays items in specific percentages as per default/specific percentage given.	F
231	By Functions	Functions	Classifier - Cluster Analysis	Displays summary of groups of data from selected set of 2 columns such that each cluster has data of similar characteristics as specified.	F
232	By Functions	Functions	Classifier - Pattern Analysis	Displays in selected ascending/descending order (based on count/sum/product) the summary of groups of data.	F
233	By Functions	Functions	Stratum - Numeric	Groups numeric data and displays the data in different tabs for each strata.	F

**List of Auto S-CAAT Functions with Brief Descriptions**

No.	Panel	Menu	Function	Tool Tips/Brief Description	Type
234	By Functions	Functions	Stratum - Date	Groups date-related data and displays the data in different tabs for each strata.	F
235	By Functions	Functions	Stratum - Character	Groups character-related data and displays the data in different tabs for each strata.	F
236	By Functions	Functions	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
237	By Functions	Functions	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
238	By Functions	Functions	3D-Reports - Stratify Numeric	Displays the Month-wise break-up by Grouping numeric data into different strata based on selected intervals.	F
239	By Functions	Functions	3D-Reports - Stratify Character	Displays the Month-wise break-up by Grouping character data into different strata based on selected intervals.	F
240	By Functions	Functions	3D-Reports - Stratify Aging	Displays the Month-wise break-up by Grouping date-related data into different strata based on selected intervals.	F
241	By Functions	Functions	3D-Reports - Aging	Displays the Month-wise break-up for selected options of ageing intervals.	F
242	By Functions	Functions	Analysis - Pareto Analysis	Displays items in two separate categories as per the Pareto (80:20) rule/specific percentage given for each category.	F
243	By Functions	Functions	Analysis - ABC Analysis	Displays items in three separate categories as per the specific percentage given for each category.	F
244	By Functions	Functions	Analysis - ABCD Analysis	Displays items in four separate categories as per the set criteria of low-low, low-high, high-low and high-high categories.	F
245	By Functions	Functions	Analysis - Aging	Groups date-related data and displays data in different intervals of data.	F
246	By Functions	Functions	Analysis - Day Of Week Analysis	Groups and displays data for each day of week in different tabs for each day.	F
247	By Functions	Functions	Analysis - Quarterly Analysis	Groups and displays data in four separate tabs for each of the quarters.	F
248	By Functions	Functions	Analysis - Monthly Analysis	Groups and displays data in twelve separate tabs for each of the months.	F
249	By Functions	Functions	Analysis - RSF	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



**List of Auto S-CAAT Functions with Brief Descriptions**

No.	Panel	Menu	Function	Tool Tips/Brief Description	Type
250	By Functions	Functions	Analysis - MVF	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
251	By Functions	Functions	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
252	By Functions	Functions	Query - Character	Displays characters that begin and/or end with specific letters or words.	F
253	By Functions	Functions	Query - Exception	Displays records based on up to three AND/OR conditions.	F
254	By Functions	Functions	Query - List To Find	Displays items for selected list for date, numeric or character fields.	F
255	By Functions	Functions	Query - List To Delete	Deletes selected list of rows for date, numeric or character data based on specified conditions and creates two new Tables: List of deleted rows and List after deletion.	F
256	By Functions	Functions	Query - Verify Numbers	Compares two columns digit-by-digit to find missing digits and transposition errors.	F
257	By Functions	Functions	Statistics - Bendford's Law	Displays variance in patterns of numeric data based on Benford's Law.	F
258	By Functions	Functions	Append File - Matched Columns	Displays records after appending multiple Tables with the same record structure.	F
259	By Functions	Functions	Append File - Unmatched Columns	Displays records after appending multiple Tables with the unmatched record structure.	F
260	By Functions	Functions	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
261	By Functions	Functions	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
262	By Functions	Functions	Validate - Duplicates	Identifies duplicates values by comparing values of two selected columns and displays results as: "duplicates in both" or "unique in both".	F
263	By Functions	Functions	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 Tables based on column values.	F
264	By Functions	Functions	Relate - Join Files	Displays records after joining data from two Tables based on common/ uncommon column values.	F
265	By Functions	Functions	Relate - Join & Compute	Displays records with sum for selected columns for each of the rows after joining data from two Tables based on common/ uncommon column values.	F

**List of Auto S-CAAT Functions with Brief Descriptions**

No.	Panel	Menu	Function	Tool Tips/Brief Description	Type
266	By Functions	Functions	Relate - 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/unmatching.	F
267	By Functions	Functions	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
268	By Functions	Functions	Relate - 3-Way Matching	Displays records after joining data from up to three Tables based on common/uncommon column values.	F
269	By Functions	Functions	Relate - Consolidate	Displays the consolidated count and sum of each distinct value in the selected column in multiple Tables.	F
270	By Functions	Functions	Relate - Collate	Displays records after combining the selected/ specified data from two/more Tables.	F
271	By Functions	Functions	Templates - Validate Patterns	Finds variances in patterns of standard formats such as PAN, TAN, GSTIN, Aadhar numbers and user specified criteria.	F
272	By Functions	Functions	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
273	By Functions	Functions	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 Tables alongwith domain summary.	F
274	By Functions	Functions	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 Tables alongwith domain summary.	F
275	By Functions	Functions	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
276	By Functions	Functions	Templates - Authentication Check	Displays the records by joining two Tables based on common field from single/multiple Database and on specific condition.	F
277	By Functions	Functions	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
278	By Functions	Functions	Templates - Analytical Review	Displays the difference between values of two numeric columns in number and in percentage.	F

**List of Auto S-CAAT Functions with Brief Descriptions**

No.	Panel	Menu	Function	Tool Tips/Brief Description	Type
279	By Functions	Functions	Templates - Back-Dated Entires	Identify back-dated entries, duplicates/gaps based on selected numeric, alphanumeric field related to date field based on original/sorted order from active/selected Database and display results as comments or new Table.	F
280	By Functions	Functions	Templates - Debit and Credit Column	Combines or segregates columns into debit and credit columns or a single column respectively.	F
281	Documents			Re-performs and edits previously performed template functions and creates duplicate of saved template and displays the log of performed templates.	P
282	Documents		File Info	Creates a new Table with information of file properties of current Database.	F
283	Documents	Log		Display the Log and info of Enterprise, System and License.	M
284	Documents	Log	Log	Displays the log of performed templates.	F
285	Documents	Log	Enterprise Info	Add or edit information about enterprise to be used for printing.	F
286	Documents	Log	System Info	Displays System Info with option to export in Excel	F
287	Documents	Log	License Info	Displays License Info with option to export in Excel	F
288	Documents		Test Data	Opens AUTO S-CAAT's Sample Data Database.	F
289	Documents		Re-run	Re-performs and edits previously performed list of template functions.	F
290	Documents		Refresh	Re-run the last function performed in AUTO S-CAAT.	F
291	Documents		Save As	Creates a duplicate of a saved template in the list of templates (functions are not performed).	F
292	Utilities			This function lets the user to schedule the performance of selected tasks/functions of Auto S-CAAT as per requirement.	P
293	Utilities		Scheduler	Schedules selected specific functions to be performed at specified time.	F
294	Utilities	Hide / Unhide		Enable/Disable by panel/modules.	M
295	Utilities	Hide / Unhide	By Panel	Displays customised Panels, Menus and Functions of AUTO S-CAAT as specified.	F
296	Utilities	Hide / Unhide	By Module(s)	Enable / Disable selected module(s) of software for S-CAAT suite.	F