

Audit Commander

Data Extraction and Computation - Excel

Audit task in brief

Extract data and perform computations (create new columns) using data contained on an Excel worksheet.

Data source(s)

- Excel Workbook

Typical Audit Uses

Preliminary step to identify data for further analysis.

Description of Output

Output will be a text file extract of the data which met the data extract criteria and to a new Excel workbook.

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Form Image

The screen shot below illustrates the situation where the auditor wants to take the data on a worksheet in an Excel workbook and extract those rows where the asset net book value is greater than \$2,000 and the asset was acquired during the fiscal year ended 4/30/2006. From this information the auditor wants to retain all the existing columns and add two new columns to the right as follows:

Column called NewCost which is computed by multiplying the replacement cost by 1.25 and also create a column called StoreCode which is obtained by taking the leftmost two characters in the location code.

The screenshot shows a dialog box titled "frmExtractXLC - Excel File Extract and Compute". It contains several fields and buttons:

- Excel File:** C:\Program Files\EZS\AC\lfa.xls
- Report File:** C:\Program Files\EZS\AC\lfa.rep
- WorkSheet:** FA (dropdown menu)
- Criteria:** (cost -ad) > 2000 and acqdate between #5/1/2005# and #4/30/2006#
- Extract Cols:** pr , Life , Location , AcqDate , Accode , DispDate , RepCost , Acquisition
- Computed:** (Repcost * 1.25) as Newcost, Left(Location,2) as StoreCode
- Extract File:** C:\Program Files\EZS\AC\lxl.xls
- Input Cols:** Col 10 : AcqDate, Col 11 : Accode, Col 12 : DispDate, Col 13 : RepCost, Col 14 : Acquisition

Buttons for "Exit" and "OK" are located at the bottom right of the dialog.

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How to complete the form and run it

Perform the following steps:

1. Click on the input file and identify the Excel workbook from which the data is to be extracted
2. Click on the report file and specify the name of the file which is to contain the extracted data (or use the default file name provided).
3. Select the Excel worksheet where the data is to be extracted from the drop down list that is provided.
4. Specify the extraction criteria (will be used in the SQL that does the extract, i.e. the “WHERE” clause).
5. Specify the data columns which should be extracted (default is all, but column names can be removed if not needed in the output file)
6. Specify computed fields and how they are to be computed. Each field should consist of a computation followed by a label which is specified as “as name” without the quotes. If more than one field is to be computed the fields need to be separated by commas. This text is used in the SQL to develop the extract.
7. Specify the name of the extract file (an Excel workbook will be created with the name specified, this is in addition to the text file report).
8. Click the “process” button.
9. When all extractions and computations have been completed, click the “Exit” button to close the form and return to the main menu.

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Example Output

Output will be both a text file with records meeting the extract criteria, as well as an Excel workbook with the extract records and calculations. Results will be in the first sheet which is named "Sheet1".

The worksheet below is that obtained from the sample screen shot. Note the two columns to the right which are highlighted – these are the new columns which have been added (highlighting applied for illustration only – the extract process does not highlight columns).

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O
1	Cost	AD	Replace	Bookval	Salvage	Depr	Life	Location	AcqDate	Accode	DispDate	RepCost	Acquisition	Newcost	StoreCod
2	4937	2004.136	1481	2932.86	987	400.8272	4	ABC	38541	A	-	4400	1945.86	5500	AB
3	8955	3641.439	2686	5313.56	1791	728.2877	3	ABC	38694	A	-	7900	3522.56	9875	AB
4	9578	3891.345	2873	5686.66	1916	778.269	4	ABC	38583	A	-	18800	3770.66	23500	AB
5	4829	1960.418	1449	2868.58	966	392.0836	9	ABC	38751	A	-	5500	1902.58	6875	AB
6	6199	2539.986	1860	3659.01	1240	507.9973	9	ABC	38680	A	-	4600	2419.01	5750	AB
7	4325	1758.889	1298	2566.11	865	351.7778	11	ABC	38599	A	-	8800	1701.11	11000	AB
8	6106	2448.247	1832	3657.75	1221	489.6493	9	ABC	38614	A	-	5700	2436.75	7125	AB
9	7173	2891.896	2152	4281.1	1435	578.3791	10	ABC	38487	A	-	1900	2846.1	2375	AB
10	4339	1745.635	1302	2593.37	868	349.1269	8	ABC	38474	A	-	7000	1725.37	8750	AB
11	3724	1506.547	1117	2217.45	745	301.3095	4	ABC	38765	A	-	2300	1472.45	2875	AB
12	6130	2510.677	1839	3619.32	1226	502.1354	5	ABC	38606	A	-	6200	2393.32	7750	AB
13	6185	2492.314	1856	3692.69	1237	498.4629	8	ABC	38550	A	-	2100	2455.69	2625	AB
14	5784	2363.686	1735	3420.31	1157	472.7372	4	ABC	38758	I	-	12300	2263.31	15375	AB
15	6031	2469.043	1809	3561.96	1206	493.8086	4	ABC	38739	A	-	9100	2355.96	11375	AB
16	5300	2168.25	1590	3131.75	1060	433.65	4	ABC	38763	A	-	1700	2071.75	2125	AB
17	4701	1884.13	1410	2816.87	940	376.826	5	ABC	38776	A	-	7800	1876.87	9750	AB
18	3437	1405.058	1031	2031.94	687	281.0117	7	ABC	38505	A	-	6700	1344.94	8375	AB
19	5555	2229.728	1666	3325.27	1111	445.9457	10	ABC	38479	I	-	11700	2214.27	14625	AB
20	5339	2159.217	1602	3179.78	1068	431.8435	4	ABC	38813	A	-	7500	2111.78	9375	AB
21	3605	1475.577	1082	2129.42	721	295.1155	5	ABC	38626	A	-	5800	1408.42	7250	AB
22	6834	2790.169	2050	4043.83	1367	558.0338	4	ABC	38625	A	-	1700	2676.83	2125	AB
23	7992	3261.751	2398	4730.25	1598	652.3502	7	ABC	38500	A	-	3500	3132.25	4375	AB
24	6958	2799.813	2087	4158.19	1392	559.9625	9	ABC	38686	A	-	9200	2766.19	11500	AB
25	5364	2153.647	1609	3210.35	1073	430.7295	6	ABC	38579	A	-	2700	2137.35	3375	AB
26	9102	3703.81	2731	5398.19	1820	740.762	8	ABC	38481	A	-	14100	3578.19	17625	AB
27	5813	2383.313	1744	3429.69	1163	476.6626	12	ABC	38514	A	-	2100	2266.69	2625	AB
28	6765	2772.124	2030	3992.88	1353	554.4248	11	ABC	38493	A	-	8900	2639.88	11125	AB
29	9223	3728.142	2767	5494.86	1845	745.6284	9	ABC	38537	A	-	17800	3649.86	22250	AB
30	9734	3904.215	2920	5829.79	1947	780.843	5	ABC	38836	A	-	14500	3882.79	18125	AB
31	3893	1561.314	1168	2331.69	779	312.2629	4	ABC	38773	I	-	8300	1552.69	10375	AB

