



# PIVOT Tables and Reports generated with ITP-PANORAMA

ITP Software Systems Ltd.

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## Understanding complex data structures

The term **Pivot Table** is used for data summarization and visualization.

ITP Software Systems has developed a generator that produces **three-dimensional** tables from applications that have many millions of lines of code (LOC) within seconds.

To select three criteria, a developer only needs to click in the relevant listboxes in the user interface of ITP-PANORAMA.

## An example:

You would like to know which statements your programs are accessing your tables with.

To select the three criteria, you only have to click in the relevant list boxes and select them in a context menu that you open with a right mouse click. Then click "OK" and you will see the PIVOT Table shown below.

Program TIARC01B is making UPDATES in the twenty tables shown at the right.

The screenshot shows the 'AdHoc Pivot' window with a Pivot Table and a list of tables. The Pivot Table has columns for 'Statement Program', 'DECLARE TABLE', 'DECLARE CURSOR', 'INSERT', 'UPDATE', 'SELECT', 'DELETE', and 'EXECUTE'. The 'UPDATE' column is highlighted with a red box. A red arrow points from the 'UPDATE' column to the 'Table' list on the right, which contains 20 tables including TIDOPNST, TIDOPOLIN, TIDOPOLCD, TIDOPMFR, TIDOPXPD, TIDOPNOT, TIDOPSUB, TIDPRCOM, TIDPRSTD, TIDOBLOK, TIDBLOB, TIDALRH, TIDALRD, TIDALGMT, TIDALARC, and TIDACOST.

It took **five seconds** to generate the shown PIVOT Table from a HyperCube Repository that was built from seven million LOC.

The following selections within the PIVOT Table are realtime.

It is possible to swap the X and Y axes and also rotate X, Y and Z.

Selecting the result by mouse click synchronizes the result with the user interface of ITP-PANORAMA where a developer can continue making analyses.

The **Report Generator** is just as easy to use. Select what you want to see and click "OK".

The screenshot shows the 'AdHoc Table' window with a table of columns and a 'Choose Columns (between 2-32)' dialog box. The table has columns for 'Program', 'Section', 'Paragraph', 'Module', and 'Table'. The dialog box shows a list of columns including COLOR, COLUMN, COMMENT, COMMENTNUMBER, CURSORD, CURSCOLM, CURSCOLMNTYPE, and CURSOR. The 'Add' button is highlighted.

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