Tool nature
ACOD-BI automatically generates optimized datamarts in a limited space storage.

Ultimately, the integration of this feature into a DBMS optimizer or into a reporting tool will make the creation and use of datamarts invisible for users.
The tool will drastically improve performance for summary queries with no administrative work for a relatively low disk space cost.

In its current version, ACOD-BI allows you to generate a datamart in a few hours instead of a few weeks for manual creation.

The generated datamart is provided in the form of two readable and editable SQL scripts. Once the datamart is generated you are no longer dependent on the tool.

Access to ACOD-BI
ACOD-BI is currently available for free in beta.
To create your datamart please contact contact@acod-bi.com.

Specificity
ACOD-BI differs from other tools of this category by its capability to identify the most optimum aggregates on complex models within a limited space storage.
This capability allows it, once the necessary data are collected, to generate the target datamart from end to end, without any action from an administrator to guide its choices.

Input data
ACOD-BI defines the target datamart structure mainly from the following data:
- Logical data model,
- Data statistics,
- Statistics on data utilization in reporting,
- Space storage granted to the datamart.

Structure of datamarts created by ACOD-BI
In its current version, ACOD-BI runs exclusively on Oracle.
Porting on others DBMS is feasible if needed.

Generated datamarts are modeled in Star Schema.
The most pertinent aggregates are added to the detail fact tables.

For every detail fact table, a unique view gathers indicators and attributes from the fact table and its associated dimensions.
The user builds queries on these views without worrying about how the dimension tables are modeled and without being impacted in case of datamart model evolution.

The system creates the additional required structures to allow the Oracle QUERY_REWRITE mechanism to automatically use aggregates.

Example
On the example database the e**xecution time** of a set of summary queries is **divided by 20** for an **additional disk space usage of 42%** using **ACOD-BI compared to a basic datamart** (more détails here).

For more information please visit **www.acod-bi.com**