

db-analyzer

(META , DATA , SCHEMA , SAMPLER)

v1.8

Use cases

This document tries to underline the possible use cases for **db-analyzer**. By describing how it could provide some useful information for you and your company.

- use case #1 - an **introduction** on subset of data to **employee**
- use case #2 - an **inventory** landscape
- use case #3 - be **data aware**
- use case #4 - **baseline** and **trends**
- use case #5 - **cross database** overview
- Use case #6 – **biz** to better engage with **IT**

Use case #1 – an introduction on subset of data to employee

- Solution can provide ERD schema(s) to illustrate the pieces that he will be working with and, very importantly, the pieces that are connected to them. To be aware of the possible impact(s).
- Solution can provide a solid descriptive of the metadata involved, the fields, their datatypes as well as provide some global statistics numbers.
- Solution can provide some detail data analysis regarding specifically the tables, the fields that he will be working on. (group by , count , null distribution)
- Solution can provide some data sampling off the tables and fields that will be worked on and also, if necessary, remove sensible information.
- And more ...

All this will help engage an employee to his task ahead and will clear the way to leverage and answer right away all the basic question that he may have. Being well informed is the best path to be more effective !

Use case #2 – an inventory landscape

At the very beginning, I foresaw this tool, to achieve what they do in some shops at the end of year. To evaluate one company inventory.

It's good to take time, to gather some insights about our databases, our data. Even if do not use right way. This is even more true with the fact that the stack of dbs used by an application could be analyzed as a all.

Most of the time when we talk about an application you can have involved, a relational database system, a search engine, a key value store, etc....

As a database administrator, I always thought that *to truly understand one application. One needs to know all its data, in all its shapes and forms.* Performing analysis will help to get there.

Use case #3 – be data aware

db-analyzer provide a horizontal view of the databases and their data. To help understand the environment and the echo-system.

- In that direction, the solution includes a sampler module. Its main goal is to give you easily and rapidly a feel of the data that is being used.
- Solution will provide the sampler data in offline manner, so it can be consulted completely remote. Anywhere , anytime.
- To allow sharing data and limit the security and privacy concerns, solution includes a flexible configuration to allow you to remove from the analysis all the sensitive fields.

Use case #4 – baseline and trends

- Solution can assist company to create a baseline by creating a snapshot , in a point in time of the of their databases portfolio
- Solution will provide a clear idea of the growth of their data in various aspects (volume, size, metadata etc)
- With that in hand you will be able to see .
 - Trending evolution of capacity sizing
 - Trending of application "complexity"
 - Assess any possible need in terms of hardware

***"We can't improve what we don't measure"* - Peter Drucker**

Use case #5 – cross database overview

The nature of the solution is to lean the results analysis and data statistics of any possible database (so far elastisearch, mssql, oracle, mysql) to a common and unified vision.

This provide the capability to have in a single place the visibility on multiple database documentation . Nowadays database projects are using more and more technology for their need in search as well as traditional relational database etc ...

Solution will be giving you a grasp on the ramification between databases, not only with the relations within one server but across multiple ones, across the infrastructure.

Use case #6 – biz to better engage with IT

In the past, I often assisted in meeting where the business “people” from marketing, finance or other departments were discussing pure requirements in terms of data that they wanted not knowing entirely the sources and the flows around the data that they were asking about.

It is one of the goal of the solution to provide the information in such a way so that everybody from the company can view, review, comment, take ownership and ultimately better articulate needs, questions when they will discuss with IT on projects and more.

Solution can assist to better communicate and understand the data echo-system. Providing support to the discussion with, for instance, database model and use case diagrams.

Ubuntu :
I am, because you are