Abstract

- Developers often make changes to Oracle tables, columns, and SQL queries without fully knowing the impact this could have on our other applications and business users. With over 700 Oracle database accounts in our organization alone, it is difficult to determine what other tables, processes, procedures, business users, or even applications will be impacted. In order to alleviate this pain point, we need to develop a Spring web application which will aid developers in determining the actual impact of a change.

Use Case

- The goal of our project funded by TI, is to streamline the process of impact analysis by providing automation. By providing automated tools and a user-friendly visual interface by which the user can access the results, we hope to minimize, alleviate, or even remove the risk of impact analysis across multiple local and remote databases.

Impact

- The goal of our project funded by TI, is to streamline the process of impact analysis by providing automation. By providing automated tools and a user-friendly visual interface by which the user can access the results, we hope to minimize, alleviate, or even remove the risk of impact analysis across multiple local and remote databases.

Summary

- Impact analysis is the process by which a database or several databases are examined to identify all dependencies and determine the effect of a change will propagate through the system. The problem with this at present is that the entire process is usually done manually. Time is money, and since performing impact analysis manually is a time-consuming and labor-intensive process, it can be quite expensive. Nevertheless, it is a necessary chore, as failure to perform proper impact analysis can result in unexpected behavior in anything referencing the affected database, from user applications to remote databases.