UDC004.4’24:631.526.3

THE AUTOMATION OF THE ACCOUNT SUITABILITY OF THE VARIETY PARAMETERS TO SPREAD OF UKRAINE

B. Golub, V. Trokhymenko

Annotation. *Considered automation of accounting indicators life varieties to spread of Ukraine and described the stages of their implementation. Depicted main blocks of life indicators accounting varieties on which the designed topology and use case diagram. An improved software and the use of modern OLAP-technologies to analyze the data that will be based on data repository.*

Key words: ***software system, certification grades, database, automated transfer of information, analysis of information, software tools, data repository, OLPT, OLAP***

Symbol plyusSertifikatsiya sortiv vidbuvaєtsya in dekilka etapiv[1]:

- submission of the application;
- formation of the research plan;
- research;
- analysis of the results;
- decisions on issuing a certificate for a new variety.

Each stage requires considerable storage and processing of information.

The purpose of the study is to improve software system providing expertise on determination of life varieties to spread in Ukraine. The work is done at the Ukrainian Institute examination of plant varieties (hereinafter - the Institute) and includes the following tasks:

- improvement of database structures (central and local);
- for the automatic transfer of information between the Institute and research stations, and making these data in a central database;
- reporting on technology OLTP (OnlineTransactionProcessing)[2].

Qualification examination involves a complex studies (field, laboratory, analytical) needed to prepare an expert opinion on the application and the decision on the state registration of the variety and the rights to it.

We have designed three main blocks of the certification process new variety.

Box collect data on the application is Applicant filing an application for certification of new varieties of plants. Actions to be taken Applicants are performed manually. This leads to slower implementation of action on the first unit. In order to automate proposed development of special software, including using Web-resource. Information on new varieties recorded in a central database; system correlates the data submitted by the applicant to existing and submit the results to the operator that decides further action certification of a new class, a new variety to allow field trials or not. Sketch. 3 shows the topology subsystem that implements actions envisaged in the block of data collection on application.

In the next block, block field trial, conducted research on new varieties of plants declared under test plan and test parameters are fixed variety, which is investigated. Also in the second stage created the respective stations reports that are sent to the Institute.

Currently, work is also carried out manually. To automate development processes offer a local database on the computer research station. To manage all the necessary processes (obtaining test plan, adding performance field testing, transmission of reports to the Institute) is expected to develop special software.

In the third block, the block examination, generated reports based on data provided by the stations. In addition, these statements are estimates on performance of field trials, which are calculated by methods of mathematical statistics. On the basis of these reports, the expert commission decision on the certification of the declared grade.

Currently data entry field trials in a central database and generate reports is through a special software application. To analyze the parameters field testing new plant varieties currently used OLTP-technologies do not allow real-time to make the correct decision on a new variety.

Improving problem solving third block is to normalize the structure of the central database and the use of special means of data analysis – OLAP-technology.

Conclusions

On the basis of accounting processes and analysis of life varieties to spread in Ukraine projected use case diagram. The displayed topology of block and described the procedure of state registration of rights to plant varieties. A perfect software through their transition to the common platform using modern software tools. Proposed use of modern technology with OLAP-building data warehouse to analyze field test data.

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