Research on the optimization and implementation of decision mechanism of Library Based on big data

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Abstract: The continuous development of big data technology provides the possibility of solving many difficulties for database. Library big data can help decision-makers understand decision-making information in a more comprehensive, objective and timely manner, identify core issues in complex environment, and improve the scientficity and rationality of Library decision-making. The decision-making mechanism of Library Based on big data emphasizes the value realization of sharing, opening and innovation. This breaks the limitations of traditional decision-making. Establish a democratic library decision-making mechanism. In order to realize decision-making, improve decision-makers, rebuild library information facilities, integrate and share data, promote the innovation of data library personnel training mode, and establish data security system, it is necessary to start.

1. Introduction

Library big data emphasizes the use of big data technology in order to analyze and use [1] multivariate database. Big data technology, in order to analyze the succession of decision-making, can promote science and improve the effect of decision-making by using the subjective experience of complex comprehensive data and the decision-making of limited data judgment dependence database. In essence, the use of big data technology in the decision-making process of the library, the reasonable reflection value of tools, and the decision-making data of the library are formulated. Through the model prediction demonstration, this is also the thinking mode and methodology of decision-making, which also has great innovation and bottom. To effectively promote the data of great value in the library, the data generated in the process of library management and service, and the data obtained according to their own needs belong to the library. Data [2] compared with the existing library data, the library data has the characteristics of large capacity, multiple types, high-speed flow and high potential value. In the big data environment, the database can completely control and analyze information, solve problems in time and respond to the environment flexibly. The changing development conditions are consistent. From this point of view, the current decision-making mechanism of the library is facing the detailed analysis of the subject. Based on this, this paper investigates the advantages of big data optimized by the decision-making mechanism of the library, the continuous progress of huge data analysis technology and the characteristics of big data of the library.

2. The Challenges Faced by the Current Decision-Making Mechanism of the Library

The decision-making mechanism of database refers to the process and form in which decision makers discuss and make decisions according to the procedures and rules established in the open organization system [3]. Generally speaking, the decision-making mechanism of library includes four parts: decision-making mechanism, environment, process and operation rules. The decision-making subject always carries out the whole process of the library decision-making mechanism which has an important influence on the operation of the library system. The decision-making subject plays a leading role in the decision-making mechanism of the library, and carries out the relationship among the decision-making subject, the cooperation mode and the decision-making
structure according to the operation rules. This provides specifications and constraints. The decision environment provides external conditions for the operation of the decision mechanism of the decision base. The decision-making mechanism of open database needs to adjust and respond flexibly according to the changes of external environment, which is an important prerequisite to ensure the normal operation of the decision-making mechanism. The decision-making process is a decision-making mechanism. The decision-making mechanism must be operated in strict accordance with specific procedures, such as making decision objectives, selecting execution plans, evaluating decision-making effects, etc. Whether the decision-making process is scientific and standardized will have an important impact on the operation process and results of the decision-making mechanism. This paper analyzes the dilemma of the current library decision-making mechanism from the above four aspects.

3. The Interference and Complication of Library Decision Environment

As a professional and organized management activity, library decision-making is affected by many internal and external factors. With the continuous development and change of social environment, the impact of external environment on Library decision-making is increasing. Generally speaking, the decision environment of the library can be divided into internal and external environment, and the internal and external environment can ignore the decision of the library [4]. In the decision-making process of the library, the information needed for decision-making is taken as the center, and the collection and analysis of the information needed for decision-making is emphasized. In the Internet environment, the database can generate a large number of complex cyclic data. These data have different characteristics and high segmentation. This requires the decision makers of the decision base to find the valuable decision reference information quickly and correctly, which is effective. The external decision-making environment of eliminating interference information focuses on the identification and solution of decision-making problems. The continuous use of Internet and technology in Intel library, the geometric growth of unstructured data in the semi structure generated in the process of library management and service, therefore, it is difficult to guarantee the greater decision-making effect of decision-making information and decision-making analysis related cost Storekeeper's decision-making. Library decision-making is facing more and more complex internal and external environmental impact, and the scientific nature of decision-making is more and more challenged.

Table 1 university library management

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<th>Time</th>
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<td>October 2014</td>
<td>Opinions on the implementation of credit system management in Colleges and Universities</td>
<td>Department of education of Guangdong Province</td>
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<tr>
<td>April 2015</td>
<td>Opinions on strengthening the application and management of online open curriculum construction in Colleges and Universities</td>
<td>Ministry of Education</td>
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<tr>
<td>January 2016</td>
<td>Opinions of the Ministry of education on running an Open University</td>
<td>Ministry of Education</td>
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4. The Solidification and Maladjustment of the Decision Structure of the Library

In the traditional decision-making mechanism, the database adopts the hierarchical decision-making structure. This decision-making structure is mainly based on vertical hierarchical management and supplemented by the cooperation of horizontal library business departments to achieve top-down strength and information. For a long time, the development of Chinese libraries has played an effective role in promoting the decision-making structure and institutional arrangement of the pyramid shaped transmission. However, with the development of society, the internal and external environment of Library decision-making has become more complex. The decision-making mechanism at the library level faces many difficulties, such as asymmetric decision-making information, slow feedback to readers, insufficient ability to cope with
environmental changes, and insufficient cooperation between departments. The decision-making environment of the library is dynamic, the decision-making information is widely distributed, and the decision-making of the library needs high timeliness. This promotes the development of Library decision-making oriented to flat decentralized decision-making structure, and has a significant impact on the traditional leadership decision-making. At present, the library mainly implements the top-down vertical decision-making, and the subordinate departments hardly participate in the decision-making process. They usually implement decision-making to limit the professional advantages of librarians and mobilize all librarians who actively participate in decision-making. Under the bureaucratic management structure, the library decision becomes rigid and lacks democracy.

5. Closure and Lag of Decision Process in Library

According to the theory of organizational determinism, the decision-making process of library includes goal formulation, program design, selection, program execution and evaluation. This decision-making process is due to the lack of timely processing and feedback of the internal and external environmental information of the library, mainly for the purpose of determining the direction of several leaders' will, and relying on scientific and reasonable decision-making can not guarantee the plan. First of all, in the stage of goal determination, in order to provide a reliable reference for the formulation of decision-making goals, it is necessary to clarify the methods and processes of collection and analysis of Library decision-making information, but at the same time, it also faces the problems of information overload and information loss[4]. The decision information of the database is widely distributed, which is very easy to cause information overload. In addition, due to the backward technology of information collection and analysis tools, the lack of effective information sometimes can not guarantee scientific and reasonable decision-making objectives. In addition, the choice of Library decision-making plan is too dependent on subjective experience judgment, and sampling survey has long decision-making time, unreasonable decision-making methods and outdated decision-making tools. Finally, in the process of evaluating the effectiveness of decision-making, there is no dynamic information tracking mechanism due to the influence of many internal and external environmental factors in the process of decision-making implementation. All kinds of new problems and new situations in the implementation of decision become simple[5]. Or, the reason why the decision deviates from the goal. In the stage of evaluation and decision-making, due to the opposite evaluation methods and tools, it is difficult to effectively describe and measure the effectiveness of decision-making, and can not adjust the decision-making plan timely and flexibly based on the feedback information.

6. Decision-making Body of Library

The decision-making of traditional library is mainly based on the subjective judgment of decision-making subjects. In this decision-making mode, the judgment results can be easily separated from the actual situation, and even can make a wrong judgment[6]. Practical experience shows that this decision-making method conflicts with the development trend of the database. Then, for a long time, for the important foundation, library decision-making and library policy formulation. However, in terms of width and depth, this research method can not help decision makers understand the library phenomenon. It is difficult for mechanized and long-period data analysis models to adapt to the current changing database decision-making environment[7]. Big data technology is based on large-scale library data information. Moreover, it can help the decision-makers to understand the problems and situations facing the library, and provide scientific reference and guidance for the decision-making of the library. This decision-making method ensures the quality of the collected information in the process of information asymmetry avoidance, environment and interference elimination. According to the data analysis model, the establishment of scientific and reasonable decision-making standards can draw conclusions. In addition, using large-scale data analysis technology in the process of library management and service can help the
development and prediction of library situation in the aspects of decision-making, user demand analysis, text information mining, etc., and improve the prediction ability of Library decision-makers. In addition, several hidden, potential, micro and very important problems in the library can be found and decision makers can take timely measures to avoid risks.

7. **The Decision Environment of Library Effectively Deals with Complex Problems and the Optimization and Integration of Data and Information**

Big data analysis technology deals with library user management information, document resource information, data information generated by user terminals, establishes a visual model, and discovers valuable information hidden in the process of library business operation. From decentralized to fragmented discovery, the association and optimization of hidden information with library service and user behavior data provide reliable and timely data support for library decision-making[6]. Under the background of big data application, decision base mainly solves unstructured and semi-structured problems[9]. The continuous development of big data technology makes the database very parallel, which is funded to create an extensible analysis technology, and the semi-structured and unstructured information collection of the employment database can be processed. It is analyzed to provide an intuitive and effective basis for library decision-making, and the dynamic management methods and countermeasures are formulated.

8. **Decision Making Organization of Library**

Breaking the hierarchical structure and building a flat organizational database, the rapid flow and accumulation of big data provide higher requirements for the database decision-making system. That requires a more flexible and open structure. This needs to provide a platform for library staff to participate in decision-making. The decision-making structure of the more networked plane library is becoming more and more complex. In order to improve the operation efficiency, we must establish a multi center and decentralized internal management structure in the big data environment. The adjustment and change of the library organization structure reflect the importance of the multi department integration of the library. This requires the interruption of top-down bureaucratic decision-making and the establishment of flexible vertical and horizontal information and communication systems. In addition, with big data as the background, library decision-making information accelerates the flow and formation, showing the characteristics of decentralization and fragmentation. Only in the past, knowledge managers were controlled according to, but at present, knowledge is usually distributed and managed by administrators, as well as ordinary administrators are fully involved in decision-making, increase the advantage of professional knowledge, and can play. The diversity of decision-making participants, the decentralization of decision-making power, the network of decision-making management and the traditional pyramid decision-making structure are gradually replaced by the flat organizational structure[8]. This can make use of flexible advantages, share and open big data technology, and improve the democracy and scientficity of decision-making.

9. **Conclusion**

In the process of collecting and using big database, if we don't pay attention to data security, it is easy to have the risk of information leakage[9]. Therefore, it is necessary to establish the security mechanism of the library big data. In the context of big data, librarians and users are both users and creators of data. Big data can really reflect personal habits, behavior rules and interests. If that kind of data leaks, it will affect the library. Moreover, users will cause a lot of trouble. Therefore, the current government agencies should improve the industrial monitoring system as soon as possible and establish standards and specifications for the collection, use and development of library data.
References


