Private Colleges and Universities Open Cloud Architecture of Oracle Big Data Laboratory Program

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Abstract

Big data are the most concerned topic nowadays in all walks of life. How to obtain the commercial value through the vast amounts of data, how to transport the big data talents for the enterprise is an urgent concern of the various colleges and universities. In order to improve the employment competitiveness of the students, private colleges and universities develop big data talent training plan and implementation, which is an urgent problem to be solved in the computer major. This paper puts forward the construction and opening of the cloud architecture of the Oracle big data laboratory, and to carry out big data related knowledge training to the computer majors. The article expounds the architecture of Oracle big data solution, the planning and deployment of big data labs. Through the training platform of the laboratory, it cultivates the big data talents with competitive strength for the private colleges and universities.

Keywords: Open Cloud Architecture, Big Data, Oracle Database, Private Universities

1. Introduction

Nowadays, big data has brought enormous business opportunities to the emerging Internet companies, banking and financial businesses, high-end equipment manufacturing enterprises. Big data play a vital role in the value chain of the whole enterprise. Oracle big data solutions provide the economic, efficient, high security and high reliability guarantee for massive data storage and processing. Oracle big data solutions are becoming the driving force behind the development of big data industry.

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Through the introduction of Oracle big data solutions, private colleges establish big data specialized laboratories, develop the innovative major in the direction of big data and project training. It can effectively realize the rapid introduction of domestic and foreign big data advanced technology, mature solutions, management and teaching content, transport qualified technical big data talents for the society, improve the employment rate of graduates and employment quality. It makes private colleges and universities take the leading position in the research direction of new technology teaching achievements, data mining, data analysis, business intelligence, etc, as well as the school enterprise cooperation[1].

2. The overall architecture of Oracle big data solutions

The core idea of Oracle big data strategy is to enable enterprises to integrate big data and provide business value by improving their current enterprise data architecture. Its flow chart is in Fig1[2].

Oracle big data machine will respond to the software and hardware resources required for big data challenges and combine into an integrated design system. It integrates optimized hardware and the most comprehensive software architecture and it is used to obtain, organize big data and load it into the Oracle database. It aims to provide Xeon analysis for all data types, while providing enterprise level performance, availability, support and security.

3. Big data laboratory setup planning

Big data cloud laboratory will focus on teaching and scientific research task demands of big data technology in private colleges and universities, special design for students teaching, scientific research, and teacher training of big data technology education and training integrated management solutions for the computer major in private colleges and universities. The program provides teaching and scientific research purposes of big data course system construction and discipline planning, the horizontal project construction of the school enterprise cooperation, big data technology experimental management software platform, big data teaching and experimental resource bundle, big data technical curriculum teacher training program, and big data experiment instruction and teaching material development.

3.1. Big data curriculum system construction and discipline planning

It is formulated based on the construction experience of large data course in colleges and universities at home and abroad and existing big data technology employment market demand. Let the students have the ability to study big data science and engineering problems and solve practical problems in big data applications; systematically grasp the information technology, data analysis, cloud computing technology, information processing and other basic theory, knowledge and skills, and they can engage in the real work of big data analysis according to the learned training knowledge and methods &technology, and have the innovative ability and practical ability[3].
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