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Comparative or Research Methodology

Name of the Faculty:- Ms. Gagandeep Bhatia

Name of the Course:- Data Mining

Name of the Activity:- Comparative or Research methodology Approach

Students Involved:- 4th year B.Tech

Description of the Activity:

Case studies are an instructional method (not a theory) that refers to assigned scenarios based on situations in which students observe, analyze, record, implement, conclude, summarize, or recommend. Case studies are created and used as a tool for analysis and discussion.

Instructions about the Activity:

- Select a data mining models
- Build a theoretical framework
- Collect data from research papers
- Describe and Analyze the case

Outcome of the Activity

- Engages students in research and reflective discussion.
- Encourages higher-order thinking.
- Facilitates creative problem-solving.
- Allows students to develop realistic solutions to complex problems.
- Develops student's ability to identify and distinguish between critical and extraneous factors.

Students Participated in the Activity:



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S.no	Enrollment No	Name
1	218002720	ABDUL MOQUSIT
2	518002720	ABHINAV KUMAR
3	718002720	ABIN JOSEPH SEBASTIAN
4	818002720	ADITYA
5	1018002720	AKANSHA SAXENA
6	1118002720	AKSHIT KUMAR DHAKA
7	1218002720	AMAN DHIMAN
8	1318002720	AMAN KUMAR SINGH
9	1418002720	AMAN KUMAR SINGH
10	1518002720	AMAN SAHU
11	1618002720	AMARTYA BHASKAR
12	1718002720	AMIJOT SINGH CHOPRA
13	1918002720	ANKIT BHARDWAJ
14	2018002720	ANKIT KUMAR
15	2118002720	ANKIT KUMAR
16	2318002720	ANUJ CHHABRA
17	2518002720	ARYAMAN TANEJA
18	2618002720	ARYAN KAUSHIK
19	2718002720	ASHISH BHANDARI
20	2818002720	ASHISH JAMES
21	3118002720	AYUSH KUMAR KASHYAP
22	3318002720	AYUSHMAAN SINGH
23	3418002720	BHAVYA BHARGWI
24	3518002720	BHAVYA SHARMA
25	3918002720	DEBARGHA CHOWDHURY
26	4018002720	DEEPANSHU SARDANA
27	4118002720	DEEPTI RAWAT
28	4318002720	DHRUV AGGARWAL
29	4418002720	GAURANG JHA



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30	4518002720	GAURANGI GOEL
31	4618002720	GOPAL
32	4818002720	HARSH MISHRA
33	4918002720	HARSH NAGAR
34	5018002720	HARSH RAJPUT
35	5218002720	HARSHIT GARG
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37	5418002720	ISHAN TOMAR
38	5518002720	ISHITA DUBEY
39	5618002720	JATIN GOEL
40	5718002720	JOHEB KHAN
41	5818002720	KHUSHBOO
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43	6018002720	KHUSHI MATHUR
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45	6218002720	KSHITIJ RAI
46	6318002720	KUNAL BIRLA
47	6418002720	KUSHAL DAHIYA
48	6518002720	LALIT KUMAR
49	6718002720	MANU S PILLAI

Conclusion

Case studies act as relevant examples derived from real-life scenarios which are used as supporting evidence for the research.

Screenshots of Activity:



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Case Study of Data Mining Application in Banking Industry

Yongping Liu
Applied Mathematics Department
South China University of Technology
maypliu@scut.edu.cn

Abstract

In this paper, we study the usages of data mining in banking industry and its related impacts. Great changes in banking services emerged from the application of data mining especially in retailing banking. We present China Merchant Bank (CMB) as an example to do case analysis, in which we explore data environment evaluation analysis model, operational efficiency model and profitability model to analysis the application performance for CMB. Finally we provide some advices of future development to CMB.

1. Introduction

Data warehouse (DW) is like a box, in which vast of data are included and processed into useful information by using various kinds of tools, such as data mining (DM), OLAP, ERP. Banking industry is the pioneer who adopts DW as tool in decision-making. DW makes it possible for business to store large amounts of disparate data in one location. DW consolidates many types of data from many data sources in order to facilitate data analysis for

information. In early days DW was motivated by a number of separate factors:

- 1) Mainframes overload. Frequently, a company's mainframe system was busy enough already, and upgrading could be just as expensive as buying a brand-new DW. These mainframes were often transactional systems performing mission critical functions such as customer billing or banking deposits. Companies were loath to tax their mainframes any further, and the data redundancy and separate processing DW provided were enticing.
- 2) Dirty data. Different data from all over the enterprise, from accounts payable in compensation to customer information, was often not only hard to find but impossible to understand and often just plain wrong. The DW provided a single platform for loading this "heterogeneous" data. It also offered a pretext for data cleaning---checking it for quality and accuracy, and reformatting it so that it was comprehensive and useful before it was loaded into the warehouse.
- 3) Security. In order to protect their mission-critical



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A Survey of Data Warehouse Implementation for E-Governance Systems

KEYWORDS Pushpal Desai

ABSTRACT Data Warehouse is widely adopted concept by private enterprises around the world. The Data Warehouse implementation provide several advantages such as "better analysis of data", "integration of data from various sources", "ad hoc reporting", "improving quality of data", "reduce cost and time to access historical data" and many more. In last decade, the Data Warehouse is successfully implemented in private sector. Similarly, the government bodies and researchers around the world have also realized its potential and started exploring opportunities to design and implement Data Warehouse for e-governance systems. This paper explores Data Warehouse design and its implementation for various e-governance data.

1 Introduction
The survey provides sound foundation to carry out research work in any discipline. Considering its immense importance, the survey on data warehouse and its implementation on e-governance data are discussed. This is very essential as survey will provide knowledge about past studies and different methodology adopted by researchers around the world. The survey include "Data Warehouse" concepts and its implementation in various fields like "personalized information service", "travelling", "National Social Security Fund", "Education", "Agriculture", "Criminal Information" and "Police department".

2 Survey of data warehouse for e-governance data
Xilin Liu et al. study the application of data warehouse in e-governance for the personalized information service. They provided comparison between tradition database management system and data warehouse. Furthermore, they discussed about related department and concerned information considering subject "Tour". They discussed about travel types, the scene spot and price, weather information, bus schedule information etc...Considering these information and departments related to them, they proposed star model for tour subject. Their study showed that proposed

methodology. The data was extracted from the mission database for the practical implementation. From the mission database, subset of data, like the missionaries and the mission's data, countries, specialties, departure data, arrival dates, extension requests from the missionaries etc... were taken. These data were extracted into a data warehouse for the analysis purpose. Their research work demonstrated several results in the form of charts and tables that end user can easily understand and use for further analysis. Their research results showed various reports such as, the missionaries achievements and their marital status, the percentage of delayed missionaries in each country, missionaries specializations in Austria, the percentage of succeeded missionaries in each country etc... Their research work demonstrated that data mining can be extremely useful to understand historical trends and predict future trends [3].

Sonal Agarwal et al. proposed a nationwide data warehouse. In their proposed conceptual model, district level data warehouses are connected to state level data warehouse. Similarly, many state level data warehouses are connected to national level data Warehouse. Their conceptual model shows that state level data warehouse is connected with several type of databases like RTD, election commission, passport.

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