Applying Data Model Patterns to Analyzing Activity-Based Management for Commercial Banks

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ABSTRACT

Abstract Activity-Based Management has become an important issue for large-sized enterprises recently. However, the failure rate of constructing Activity-Based Management is still extremely high due to the difficulty of defining user requirements at the initial stage. The purpose of this research is to seek to use Data Model Patterns proposed by Hay [37] to improve the requirements analysis for Activity-Based Management systems. This research has used a case study (Credit Department of Commercial Banks) to implement the proposed ideas. The results of this research indicated that by using Data Model Patterns to improve requirements analysis of Activity-Based Management user requirements can be defined quite precisely and consequently the dimensional model of Activity-Based Management can be designed quite exactly. Based on the results of this case study, this research has proposed an approach to requirements analysis of Activity-Based Management. This approach includes four steps: analyze business documents, define cost drives, conjecture summary information for user requirements, use Hay 's [37] Data Model Patterns to draw a conceptual model of business. The main contribution of this research is to propose a potentially new requirements analysis method to mitigate the problem of defining user requirements for Activity-Based Management systems.

Keywords: Activity-based Management, Data Model Patterns, User Requirements Analysis.

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REFERENCES

參考文獻 1. 王平心,2001,「作業成本計算理論與應用研究」,東北財經大學出版社。 2. 王正新,1999,「作業製成本管理制度之執 行與效益」,1999整合性策略成本管理系列研討會。3.包冬意,1996,「物件導向分析與設計-方法導引」,松崗。4.李敏,2002.9 ,「作業成本制度及在銀行管理中的應用」,金融會計。5. 吳安妮,1990,「增強企業之競爭能力」,會計研究月刊,62期。6. 吳安 妮,1998,「實施作業製成本管理制度(ABC及ABM)之省思」,會計研究月刊,162期。7. 吳安妮、杜榮瑞、華德譯,,1991,「 轉?點上的成本管理 - 找回管理會計失去的攸關性 」 , 遠流出版社。 8. 周齊武、吳安妮 , 1993 , 「跨越作業成本制的鴻溝 , 採漸進式成 本法將未蒙其利反受其害」,會計研究月刊,100期。 9. 徐榮男,2004,「利用資料模型樣式加強REA會計模型之研究」,大葉大學會 計資訊研究所碩士論文。 10.張俊智,2003,「語意資料模型之實證研究:樣式與本體論之比較」,大葉大學資訊管理研究所碩士論文。 11.許永暉,2004,「利用資料模型樣式探討資料倉儲之概念模型研究」,大葉大學資訊管理研究所碩士論文。12.陳木在、陳錦村, , 2001, 「商業銀行風險管理」, 新陸書局。 13.陳正泰, 1999, 「作業基礎成本制資料架構之建立」, 國立中央大學資訊管理研究所 碩士論文。 14.陳安瑾,1997,「以『作業基礎成本制度』為基礎之策略管理設計與實施-以國內C銀行信用卡部門為研究個案」,中國 文化大學會計研究所碩士論文。 15.陳依蘋,1999,「作業製成本管理在企業管理方面之運用」,會計研究月刊,165期,pp.19-23。 16. 陳茂鴻,2000,「實體與其關連的結構特性」,大葉大學資訊管理學系碩士論文。 17.陳冠中,2005,「作業制品質成本制度之建構」 ,大葉大學21世紀管理理論與實務研討會。 18.郭倫,1999,「作業基礎預算制度之設計與實施過程-以國內某銀行信用卡部門為研究對 象」,國立政治大學會計研究所碩士論文。 19.曾康霖,2000,「商業銀行經營管理研究」,西南財經大學出版社 。 20.楊雅慧,1996 ,「作業基礎成本制導入銀行業之研究」,國立中山大學企業管理研究所碩士論文。 21.葉士徹,1998,「作業基礎成本制系統建構之 研究-實地建立個案公司之雛型為例」,大葉大學資訊管理研究所碩士論文。 22.謝育政,1998,「企業實施作業成本制之問題點探討」 ,國立中央大學企業管理研究所碩士論文。 23.蔡文賢、謝浩明、邱文玲,1998,「作業成本制在營造業工程成本分析、控制之探討」 ,中山管理評論。 24.劉曉堯編著,1991,「現代銀行管理會計-銀行經營情報分析」,三民書局。 25.Brimson, James A., 1991,

"Activity Accounting - An Activity-Based Costing Approach", John Wiley & Sons, Inc., New York. 26. Chaffman, Beth M. and Talbott, John. Activity-Based Costing in Service Organization. CAN Magazine, December-January, pp.15-18. 27. Cokins G., 1996, "Activity-based cost management-making it work. " Chicago, IL:Irwin Professional Publishing. 28.Compton, Ted R., 1994, " Using Activity-Based Costing in Your Organization-Part 1. " Journal of System Management, March, pp.32-39. 29. Cooper, R., Turney, P. B. B., 1990, "Internally Focused Activity-Based Cost System, "In: Kaplan, R. S. (Ed.), Measure for Manufacturing Excellence. Harvard Business School Press, Boston. 30. Cooper, R. and R. S. Kaplan, 1991, "How Cost Accounting Distorts Product Cost", Management Accounting, Apr., pp.20-27. 31. Cooper Robin, Kaplan, Rebert S. "Profit Ptiorities from Activity - Based Costing." Harvard Business Review, Mary-June 1991,pp.130-135. 32. Cooper Robin, Kaplan, Rebert S., Maisel Lawrences S., Morrissey Eileen, and Oehm, Ronald M., 1992, "Implementing Activity-Based Cost Management: Moving from Analysis to Action ", Montvale, NJ, Institute of Management Accountants. 33.Frank p. Johnson & Richard D. Johnson, 1989, Bank Management. 34. Gupta, M. & Galloway, K., 2003, "Activity-Based Costing/Management and Its Implications for Operations Management, "Technovation, Vol.23, 2, February, pp.131-138, 35. Hammer, M. and Mc Leod D., 1981, Database description with SDM: a semantic database model, ACM Trans. on Database Systems (TODS), (6, 3), Sept, pp.351-386,.. 36. Hardy, J.W. and Hubbard, E. D., 1992, "ABC Revisiting the Basics." CMA Magazine, November, pp24-29, 37, Hay D. C., 1996, Data Model Patterns Conventions of Thought. New York, 38. Hankes, Janice., 1995, ABC is a Firm Favourite With High Street Banks, Management Accounting – London, January, p.19. 39. Howell, Robert A and Soucy, Stephen R., 1987, "The New Manufacturing Environment: Major Trends for Management Accounting." Management Accountants, July, pp.21-27. 40.Isaac, Sam., 1993, "Seeking Better Industry Data", Mortgage Banking, June, p.95, p.100. 41.Johoson, H.J., 1988, "Activity-Based Information: A Blueprint for Word-class Management Accountants," Management Accountants, June, pp.23-30. 42. Kaplan Robert S., 1990, "The Four-Stage Model of Cost Systems Design." Management Accountants, February, pp.22-26. 43. Kaplan Robert S., 1988, "One Cost Systems Is not enough." Harnard Business Review, January-February, pp.21-27. 44. Mays, Fames W. and Sweeney, Robert B., 1994, Activity-Based Costing in Banking - A Case Study. CAN Magazine, May, pp.19-23. 45. Michael E. Porter, 1980, Competitive Strategy-Techniques for Analyzing Industries and Competitors, Free Press, pp.339-357. 46.Peavey, Dennis E., 1990, " It is Time for a change. "Management Accounting, February, pp.31-35. 47.Peckham, J. and Maryanski, F., 1988, Semantic Data Models, ACM Computing Surveys, (20, 3), September pp.153-189. 48.Pirrong, Gordon D., 1993, As Easy As ABC...Using Activity Based Costing in Service Industries. The National Public Accountant, February, pp.22-26. 49.Raffish, Norm, Turney, Peter., 1991, Glossary of Activity-Based Management, p.54. 50. Rodgers, U., 1991, Oracle: A Database Developer's Guide, Prentice-Hall Inc., 51. Robert S. Kaplan, 1994, Management Accounting 1984-1994 Development of New Practice and Theory, Management Accounting Research, September, pp.247-260. 52. Robert S. Kaplan & Robin Cooper, 1998, Cost & Effect - Using Integrated Cost Systems to Drive Profitability and Performance. 53. Sephton, Marcus. and Ward, Trevor., 1990, ABC in Retail Financial Service. Management Accounting – London, April, p.29, P.33. 54. Sharma, Vidya S., 1992, Determining Product Profitability. The Bankers Magazine, March-April, pp.67-71. 55. Srikant Datar and Robert S. Kaplan, 1995, The Co-operative Bank, Case 9-195-196. 56. Turney, P. B.B., 1991, Common Cents: The ABC Performance Breakthrough, Hillsboro, OR.: Cost Technology. 57. Turney, P. B. B.,1992, Common Cents, the ABC Breakthrough. Hillsboro, OR: Cost Technology.