Data Management

Issues, Challenges and Opportunities

Mira Kartiwi Akram M. Zeki



IIUM PRESS

INTERNATIONAL ISLAMIC UNIVERSITY MALAYSIA

DATA MANAGEMENT: ISSUES, CHALLENGES AND OPPORTUNITIES

Editors

Mira Kartiwi Akram M. Zeki



DATA MANAGEMENT: ISSUES, CHALLENGES AND OPPORTUNITIES

Published by: IIUM Press International Islamic University Malaysia

First Edition, 2011 ©HUM Press, HUM

All rights reserved. No part of this publication may be reproduced, stored in a retrieval system, or transmitted, in any form or by any means, electronic, mechanical, photocopying, recording, or otherwise, without any prior written permission of the publisher.

Perpustakaan Negara Malaysia

Cataloguing-in-Publication Data

Bibliography p. Includes Index

ISBN

ISBN: 978-967-418-084-3

Member of Majlis Penerbitan Ilmiah Malaysia – MAPIM (Malaysian Scholarly Publishing Council)

Printed by:

HUM PRINTING SDN. BHD.

No. 1, Jalan Industri Batu Caves 1/3 Taman Perindustrian Batu Caves Batu Caves Centre Point 68100 Batu Caves Selangor Darul Ehsan

TABLE OF CONTENT

. DATA QUALITY ASSESSMENT ON INTERNAL SYSTEM IN XYZ DIVISION OF TELECOMMUNICATION COMPANY: A CASE STUDY IN NDONESIA Muharman and Mira Kartiwi1
I. DATA MANAGEMENT ISSUES: A CASE STUDY OF HUM DIGITAL LIBRARY Alfi Khairiansyah Machfud, Jawdat Ahmad Khatib, Khodashev Aslanbeck and Mira Kartiwi15
B. DATA MANAGEMENT CHALLENGES IN BANKING INDUSTRY: BUSINESS PERSPECTIVE Adebiyi Lookman Ademola and Mira Kartiwi
AND THE SOLUTIONS: RECOMMENDATION AND TOOLS ohara Ghazali and Mira Kartiwi
5. DATA QUALITY MATURITY IN INFORMATION TECHNOLOGY DIVISION (ITD): AN EDUCATION ORGANIZATION Muhammad Rabiul Hasan and Mira Kartiwi43
5. DATA STEWARDSHIP: A CASE STUDY OF CENTRE OF LANGUANGE AND PRE-UNIVERSITY ACADEMIC DEVELOPMENT (CELPAD) smail Mahmoud, Kairo, Johara Ghazali, Rifhan bt. Abdul Ghafir and dira Kartiwi
7. THE CHALLENGES OF DATA MIGRATION CASE STUDY OF JNIVERSITY PUTRA MALAYSIA (UPM) Hanan Abdullah A. Fatani, Ikhlas Fuad Zanzami, Nuha Abdullah H. Zammaral and Mira Kartiwi

16. DATA MANAGEMENT CHALLENGES IN RETAIL INDUSTRY Fauzan Alfariti and Mira Kartiwi151
17. TROPICAL CROPS PLANTING RECOMMENDATION SYSTEM Siti Safura Yasmin Sahibin and Akram M. Zeki157
18. EMPLOYING MACHINE LEARNING ALGORITHMS TO EXTRACT ISLAMIC KNOWLEDGE Kawther A. Aldhlan, Ahmed M. Zeki and Akram M. Zeki161
19. A WEB DATA MANAGEMENT APPLICATION FOR EDUCATION SECTOR: A KICT ONLINE REGISTRATION SYSTEMS FOR FINAL YEAR PROJECT
Muhamet Abdullahu and Mira Kartiwi169 20. LOGISTIC DATABASE SYSTEM Akram M, Zeki and Wan Zarith Nadia bt. Wan Zahari
21. DATA OWNERSHIP CHALLENGES IN DISASTER MANAGEMENT Mira Kartiwi, Rasheed Muhammed and Muna A. Ali185

15. CHALLENGES OF DATA MANAGEMENT (DM) IN MANUFACTURING SECTOR

Dramane Mohamed, Swaleh Mauled, Abul kalam, Ahmed B. Salami, Mohammad Salem Almohaifer and Mira Kartiwi

ABSTRACT

Many manufacturers are facing a complex situation in the manufacturing industry due to lacking of data management system. This may led to negative impact on this sector. To overcome these situations they use data management tools. The main focus of this paper is concerned at the determination of few manufacturing challenges based on data management functions within the contemporary manufacturing sector as well as how they make solution by using data management tools. Recently data mining, data warehousing, supply chain management, and other data management tools and practices have become effective in the manufacturing industry such drug (molecular) engineering process, auto as manufacturing industry, oil manufacturing industry and many more. These industries are facing different types of problem that are related to their processes, these problems have been overcome by using different data management tool and practices.

15.1 INTRODUCTION

The traditional resources long known to be used in manufacturing industry are man, land, money and machines. Only some few decades ago, data has been added to this list and identified as the most crucial of them and can be strategically used in place of any of them and cut the organization cost effectively. This organization data/information adds value to the manufacturing industry by aiding the decision makers to come up with