

History of Database Management Systems

Burton Grad

Thomas J. Bergin
American University

Database management systems (DBMSs) have played an outsize role in the history of software development and in the creation and growth of the software products industry. Recognizing the major role played by these products, the *Annals* is publishing two special issues on the subject. These two issues will be the fourth and fifth sponsored by the Software Industry Special Interest Group of the Computer History Museum (formerly the Software History Center). This issue (the first) is focused on the products, companies, and people who designed, programmed, and sold mainframe DBMS software products beginning in the 1960s and 1970s. The second issue will be devoted to the relational DBMS products, which were developed during the 1970s and came to prominence (and some say dominance) during the 1980s and 1990s.

What was so important about these DBMS products? Why did they have such a major impact on the growth of the software products industry and, more importantly, on the way that almost all major commercial applications were built from the 1970s on? It is a complex story, part of which is told in this issue. Thomas Haigh begins this issue by describing the world prior to DBMSs and some of the early DBMS products. Tim Bergin and Thomas Haigh then examine the database management products that dominated the IBM environment and other major computer platforms in the 1970s and 1980s.

This issue tells the rest of the story through a series of pioneer recollections, principally from people who founded the major DBMS companies or were heavily involved in the growth and development of these products and companies. These eight recollections cover the principal DBMS software products for IBM mainframe computers.¹ IBM itself was a significant player in this marketplace with its IMS product, but all the other

products were produced and marketed by independent software companies. Many historians and industry analysts believe that these products and these companies formed the foundation on which the mainframe software products industry was built.

The significance of DBMSs

In some sense, these DBMSs, with their accompanying data communications (or on-line transaction processing) systems, enabled users in all industries to construct both on-line and batch applications in a far more timely and cost-effective manner. These database and data communications systems became the foundation for building many (some say most) of the core applications in every industry and government agency, and they became the engines that drove the sale of mainframe computers during the 1970s and afterward.

The following list supplies just some of the reasons why industry analysts and historians consider DBMS software products so important from both a technological and business standpoint:

- They provided an efficient way to program complex applications without the cost of reentering the data across and retrieval functions for each application.
- They provided a relatively simple, standard way to share data among multiple applications and multiple users.
- They created specialized user-oriented languages.
- They provided standard interfaces for the data communications programs so that the on-line transaction processing applications could be efficiently built, tested, and maintained (both in time and cost).
- They managed the databases on various random- and sequential-access devices

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Encyclopedia of Historians and Historical Writing Kelly Boyd, 2019-10-09 The Encyclopedia of Historians and Historical Writing contains over 800 entries ranging from Lord Acton and Anna Comnena to Howard Zinn and from Herodotus to Simon Schama Over 300 contributors from around the world have composed critical assessments of historians from the beginning of historical writing to the present day including individuals from related disciplines like Jürgen Habermas and Clifford Geertz whose theoretical contributions have informed historical debate Additionally the Encyclopedia includes some 200 essays treating the development of national regional and topical historiographies from the Ancient Near East to the history of sexuality In addition to the Western tradition it includes substantial assessments of African Asian and Latin American historians and debates on gender and subaltern studies Doing Women's History in Public Heather Huyck, 2020-04-05 A complete guide to interpreting women's history Women's history is everywhere not only in historic house museums named for women but also in homes named for famous men museums of every conceivable kind forts and battlefields even ships mines and in buckets Women's history while present at every museum and historic site remains less fully interpreted in spite of decades of vibrant and expansive scholarship Doing Women's History in Public A Handbook for Interpretation at Museums and Historic Sites connects that scholarship with the tangible resources and the sensuality that form museums and historic sites the objects architecture and landscapes in ways that encourage visitor fascination and understanding and center interpretation on the women active in them With numerous examples that focus on all women and girls it appropriately includes everyone for women intersect with every other human group This book provides arguments sources written oral and visual and tools for finding women's history preserving it and interpreting it with the public It uses the framework of Significance importance Knowledge Base research in primary secondary and tertiary sources and Tangible Resources the preserved physical embodiment of history in objects architecture and landscapes Discusses traditional and technology assisted interpretation and provides Tools to implement Doing Women's History in Public Using a hospitality model museums and historic sites are the locales where we assemble learn from each other and take our insights into a more gender shared future **Information Management Report**, 2003 Library Journal Melvil Dewey, Richard Rogers Bowker, L. Pylodet, Charles Ammi Cutter, Bertine Emma Weston, Karl Brown, Helen E. Wessells, 2007 Includes beginning Sept 15 1954 and on the 15th of each month Sept May a special section School library journal ISSN 0000 0035 called Junior libraries 1954 May 1961 Also issued separately Library Journal, 2004 Protocols in Lichenology Ilse Kranner, Richard Beckett, Ajit Varma, 2012-12-06 As an intricate association between a fungus and one or more green algae or cyanobacteria lichens are one of the most successful examples of symbiosis These fascinating organisms survive extreme desiccation and temperatures They are adapted to a great variety of habitats from deserts to intertidal zones from tropical rain forests to the peaks of the Himalayas and to circumpolar ecosystems Lichens are extremely efficient accumulators of atmospherically

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Historical Information Science Lawrence J. McCrank, 2001 Here is an extensive review and bibliographic essay backed by 5 000 citations about developments in information technology since the advent of personal computing and the convergence of the disciplines Its focus is on the access preservation and analysis of historical information primarily in electronic form and the relationships between new methodology and instructional media technique and research trends in library special collections digital libraries electronic and data archives and museums

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