

Chapter 11

Conceptual, Logical and Physical Database Design

Web Resources

1. [An Introduction to Database Design: From Logical to Physical](#)

This article provides a gentle introduction to database design which discusses how a database design can simply not be thrown together but must go through a clear sequence of steps.

Available: <http://www.dbazine.com/db2/db2-mfarticles/mullins-datamodel>

2. [IBM Certified Database Administrator](#)

IBM provides its own certification for DB2 Universal Database. The certification is known as IBM Certified Database Administrator - DB2 UDB V8.1 for Linux, UNIX and Windows. <http://www-03.ibm.com/certify/certs/dbdbudb81.shtml>

3. [Database Administration Made Easy with Oracle9i](#)

Database Administration Made Easy with Oracle9i discusses in detail how one could administer the databases via the enterprise manager. The white paper discusses various important functions like memory management, space management, transaction management, etc.

<http://www.oracle.com/technology/products/manageability/database/pdf/servermanageability92twp.pdf>

4. [Oracle Database 10g Release 1 \(10.1\) Documentation](#)

This site contains all the documentation for the ORACLE 10g database.

Available: <http://www.oracle.com/technology/documentation/database10g.html>

5. [Oracle® Database Administrator's Guide 10g Release 2 \(10.2\)](#)

This downloadable document is intended for database administrators who are responsible for creating an Oracle database, ensuring the smooth operation of an Oracle Database and monitoring the operation of an Oracle Database.

Although it is in much more detail that you would require for your course, it does put into perspective the job of the DBA.

Available:

http://download.oracle.com/docs/cd/B19306_01/server.102/b14231/toc.htm

6. [Subtyping: conceptual and logical issues](#)

This research paper by Dr. Terry Halpin surveys some of the main issues related to conceptual specification and relational mapping of subtypes and supertype. The paper discusses when and where to use subtypes when creating a conceptual model and looks at how they map into the logical phase of database design.

Available: <http://www.orm.net/pdf/Subtype.pdf>

7. [DB design and app development: Why can't we be friends?](#)

Although this article is a few years old, it provides an interesting discussion on how we design databases in conjunction with the applications which will have to use them.

Available: <http://www.adtmag.com/article.aspx?id=8976&page=>

8. [Oracle database design](#)

If you have a question about best practices for Oracle database design then this site contains the tips and expert advice for DBMS versions 8, 9i, 10g and 11g to help you out.

Available:

http://searchoracle.techtarget.com/topics/0,295493,sid41_tax299425,00.html