

ORACLE
DATABASE

10^g HTML DB

Web Application Development

Scott Spendolini

Product Manager, Oracle HTML DB

Does Your Organization:

- Use spreadsheets as databases?
- Store mission critical data in applications developed in a desktop database such as Microsoft Access?
- Not have time to build all of the applications that users are asking for?

Drawbacks to Desktop Tools

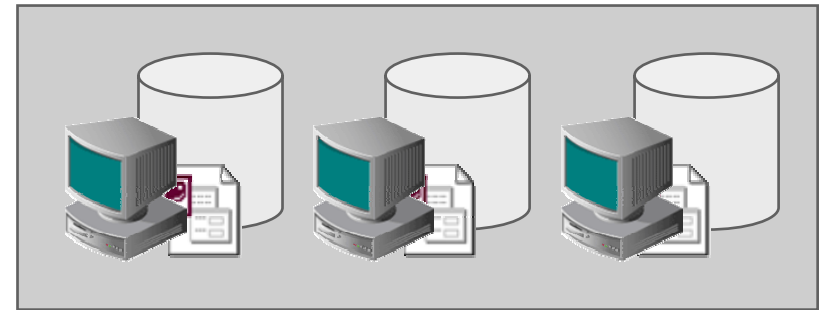
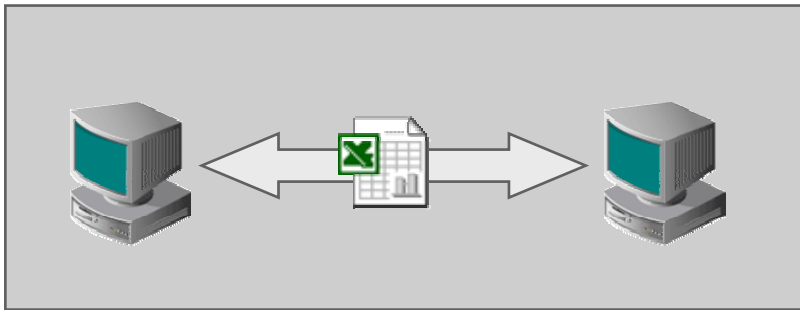
FRAGMENTED
Data in Many Places

VULNERABLE
Data not Secure

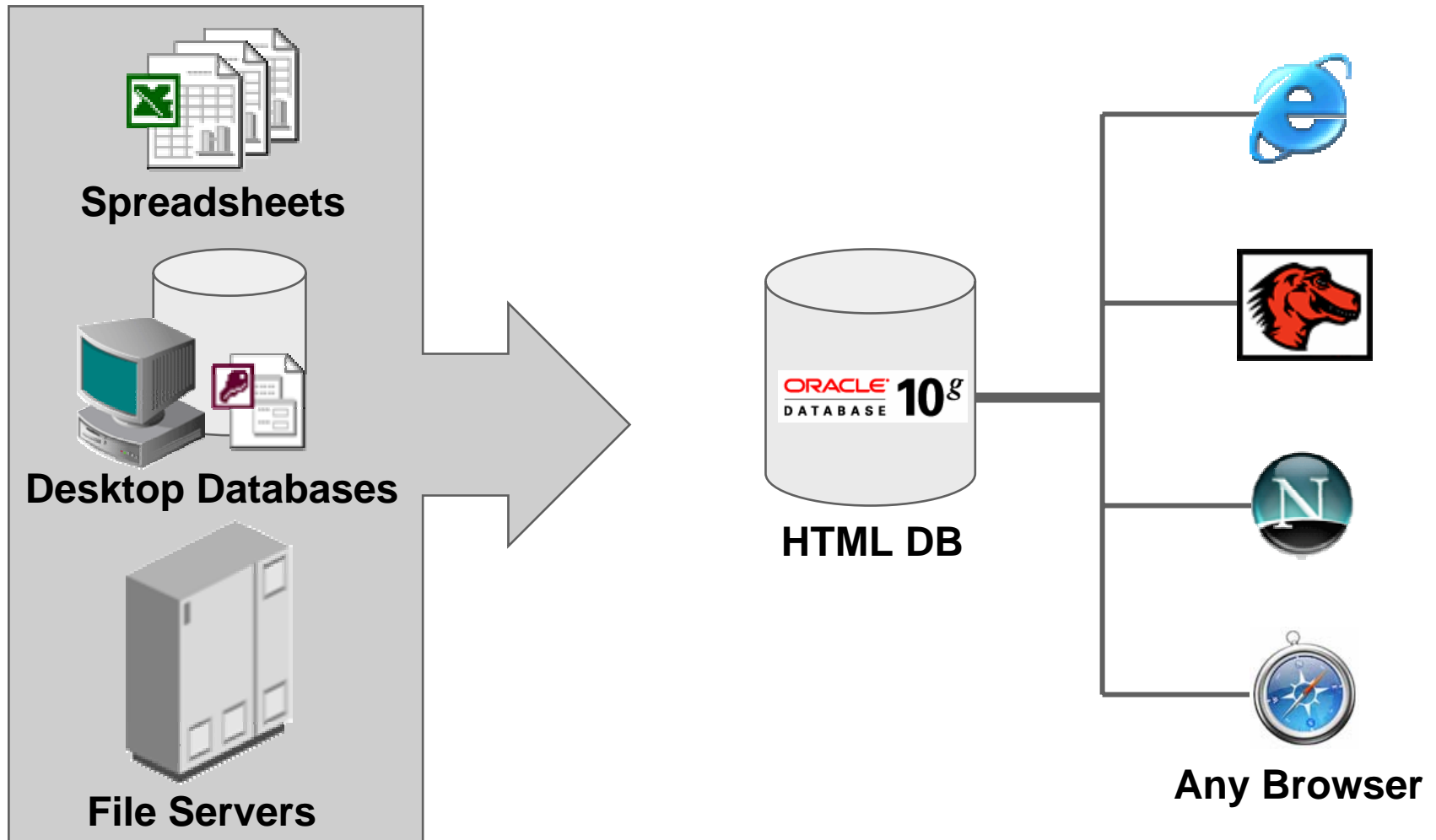
PLATFORM DEPENDENT
MS Windows Only

WEB UNFRIENDLY
Need to Install Client Software

COSTLY
Inefficient use of IT Resources



Consolidation with HTML DB



Oracle HTML DB Offers

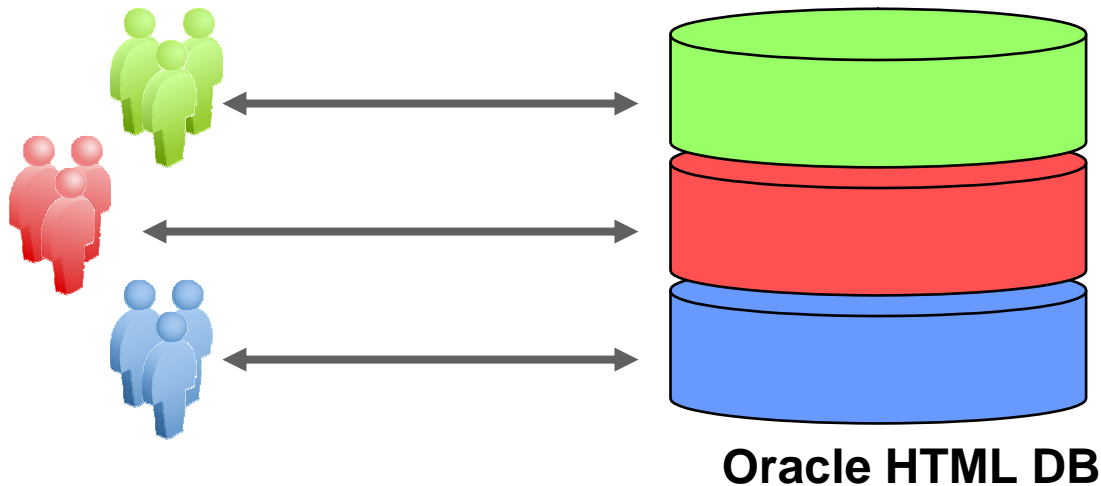
- The Qualities of a Personal Database
 - Productivity
 - Ease of Use
 - Flexibility
- The Qualities of an Enterprise Database
 - Security
 - Integrity
 - Scalability
 - Availability
 - Portability
- Built for the Web

HTML DB Value Proposition

- Manage workgroup data more effectively and efficiently
- Build “tactical” or “opportunistic” data-centric web applications that you are
 - Not building today
 - Building with the wrong technology

How it Works

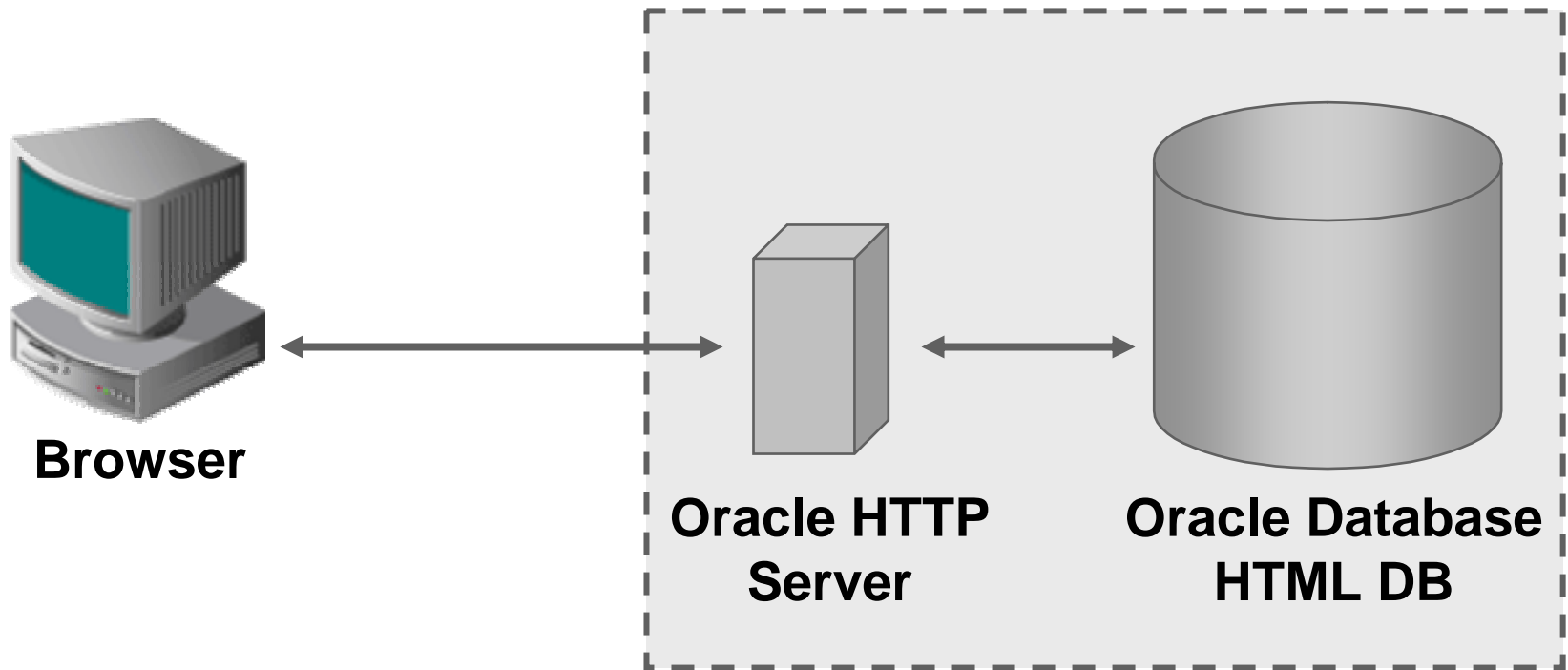
- Shared Workgroup Database Service
 - Centrally Deployed & Managed
 - Accessed anywhere via a Browser
 - Declarative development style



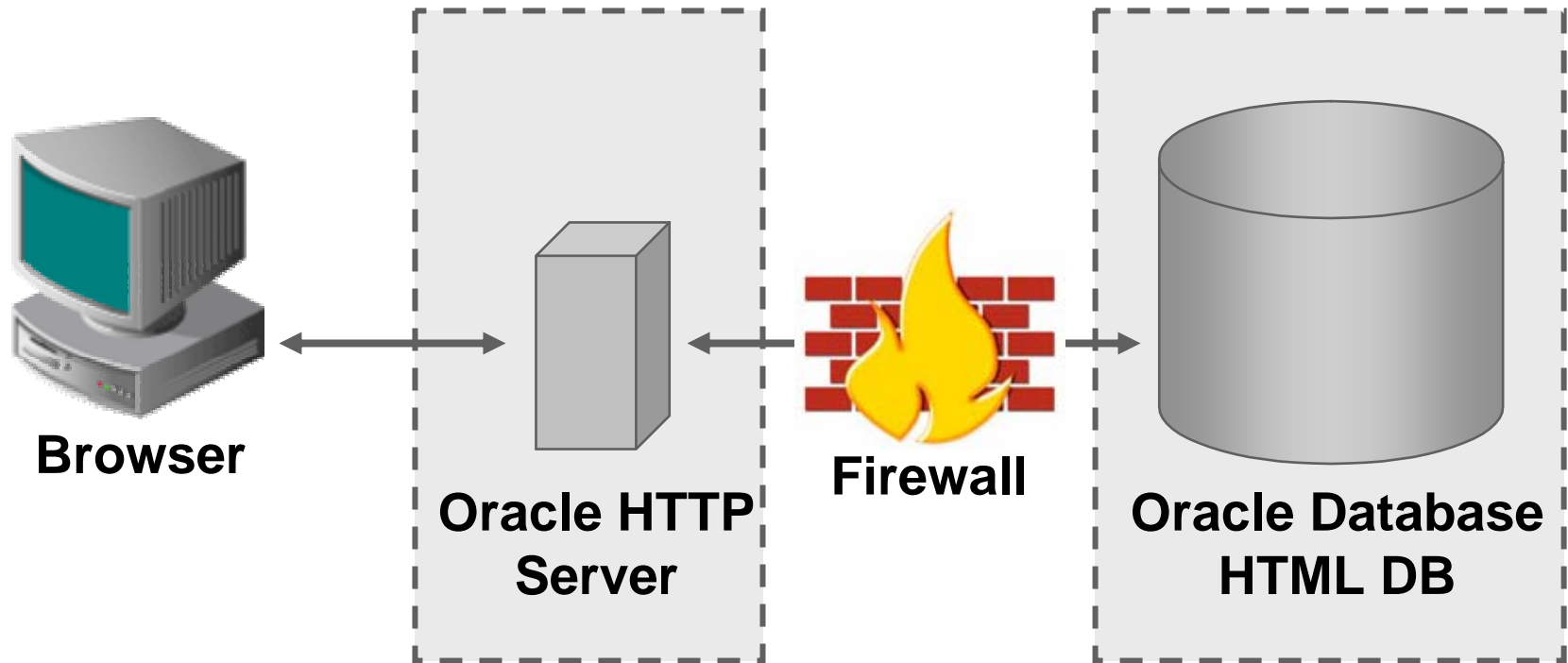
Availability

- Software ships on Oracle Database 10g Companion CD
- Will also work with Oracle Database 9iR2 (9.2.0.3 or newer)
- Supported in Standard One, Standard and Enterprise Edition
- No Additional Charge

Architecture



Architecture



Instead of the Oracle HTTP Server, you can use the HTTP Server supplied with Oracle Application Server 9i or 10g

Functionality Overview

- Four Major Components
 - Administration
 - Data Workshop
 - SQL Workshop
 - Application Builder

Administration

- Manage Workspaces
- Manage Users and Developers
- Provision Resources
- Monitor Usage



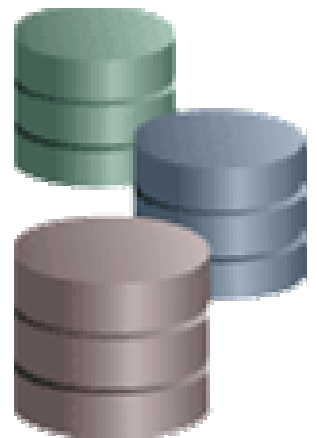
Data Workshop

- Import Data
- Export Data
- Text, XML, Spreadsheets



SQL Workshop

- View Database Objects
- Create Database Objects
- Query by Example
- Browse Data Dictionary
- Run Scripts



Application Builder

- Navigation
- Reports
- Forms
- Charts
- Templates
- Security
- Internationalization



Positioning

- Replacement for MS Access/MS Excel/Lotus Notes
- Data-Centric Applications
- Applications that you are not building today

Integration with Other Oracle Products

- Oracle AS 10g
 - Oracle Internet Directory
 - Oracle Login Server
 - HTML DB as a Partner Application
 - OmniPortlet
- Oracle DB 10g
 - RAC
 - Label Security
 - Spatial

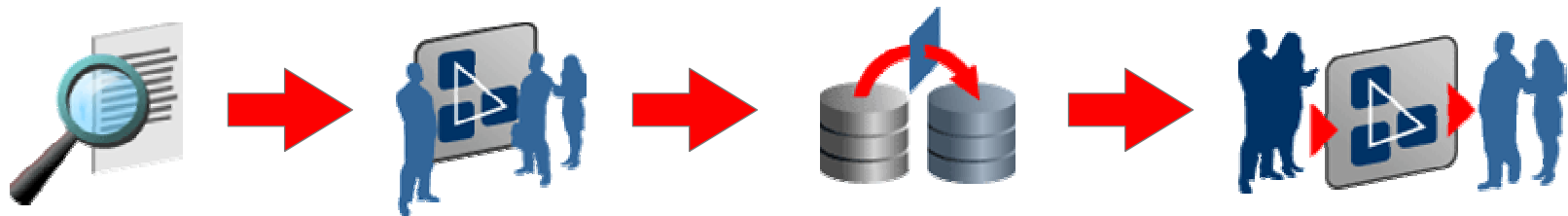


MS ACCESS MIGRATION

How to Migrate

Four Steps to a Successful Migration

1. Analyze
2. Design
3. Migrate the Data
4. Migrate the Application



1) Analyze

- **MOST IMPORTANT STEP**
 - If this is not done or done poorly, you will have a poorly designed HTML DB Application!
- Analyze both the Data Model and Application
- Use the HTML DB Assessment Tool to determine the complexity of the MS Access Application

1) Analyze

Assessment - Mozilla Firefox

File Edit View Go Bookmarks Tab Tools Help

http://ap6002wgs.us.oracle.com:7777/pls/marvel/f?p=102:1:5035477092957280884:::P0_X:42

Ext Int PM Admin Tracker Studio Local SYR Forum People Aria Clock X-Late iTunes RSS General E.L. Logan I... Experts Exchange

Disable Forms Images Information Miscellaneous Outline Resize Validation View Source Options

Assessment

ORACLE

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Description

KommDB_D from Sergio

Assessment

Summary	
# of Forms	1 Hide
# of Reports	0
# of Querys	12 Show
# of Modules	0
# of Tables	20 Show

Forms															
Name	Bound	Record Source			Allow			Recordset Type	Controls		Unmappable Controls			Functions	
		Table	Query	SQL	Edit	Delete	Create		Access Objects	Potential HTMLDB Objects	Unbound Obj Frame	Bound Obj Frame	ActiveX Controls	Quantity	Lines
frmAnmeldeformular					✓	✓	✓	Dynaset	23	7	1	0	0	6	192
Totals									23	7	1	0	0	6	192

Done

2) Design

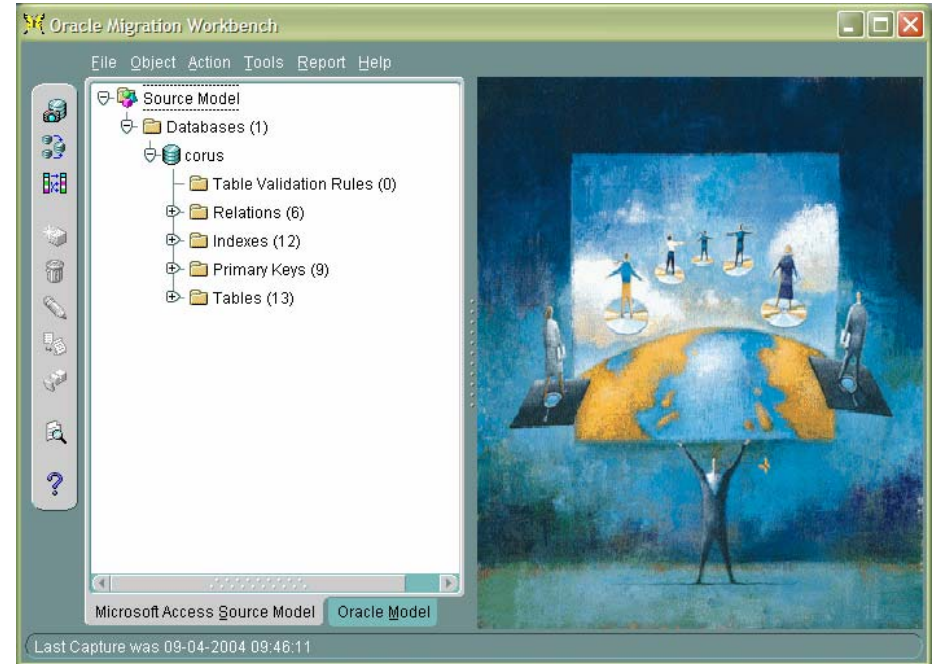
- Application Design
 - Many constructs of MS Access do not translate to the web
 - There is not necessarily a 1-to-1 relationship between an MS Access form and an HTML DB Form
 - HTML DB Reports can replace several MS Access Reports
 - Forms built in MS Access to manage LOVs can be managed as LOV natively in HTML DB

2) Design

- Database Design
 - Good database design is fundamental to a good application
 - Many MS Access Applications are written by people who don't know a lot about data modeling
 - HTML DB wizards prefer numeric Primary Keys automatically populated via a Trigger
 - Normalize data where appropriate

3) Migrate the Data

- Use the Oracle Migration Workbench to move the data from Access to Oracle
- If you need to change the data model:
 - Migrate ALL of the tables to Oracle
 - Make changes on the Oracle side via SQL Workshop



3) Migrate the Data

- Migration Steps
 - Run the msaccess_exporter file to generate an XML file which describes your MS Access app
 - Import the resulting XML file into the Migration Workbench
 - Modify any data mappings
 - Create the Oracle Model
 - Create the Oracle Schema & Import the data
 - Validate that the number of rows in Access matches the number of rows in Oracle
 - Make any data model changes

3) Migrate the Data

- Some things to look out for:
 - The Oracle Schema which the Migration Workbench creates will be named after the .MDB file – plan accordingly
 - You will need an account with DBA Privileges on the target database in order to run the Migration Workbench

4) Migrate the Application

- Create an HTML DB Workspace based on the schema that the Migration Workbench created
- Create an Application on this Workspace
- Use the Wizards to quickly re-create the Forms and Reports in HTML DB

Summary

- It's all about the data model!
- A little planning will go a long way
- There is more than one way to migrate an application – keep the client involved so as to not build something they will not want/like
- Master-Detail wizard is coming in version 1.6 (Release date: end of CY04)

Try it Out!

- Hosted Instance of HTML DB - Free of Charge
 - <http://htmldb.oracle.com>
- Talk about it on the OTN Forums
 - <http://htmldb.oracle.com/forums>
- Download Starter Applications & Templates from HTML DB Studio
 - <http://htmldb.oracle.com/studio>

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D E M O N S T R A T I O N

HTML DB Demo

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