

DMSTEX Business Solutions

DDGS Presentation 1

Deliverables

Sponsored by DMSTEX Business Solutions

- Founded 2010
- 25 Years Oracle Experience
- Database Design and Generation Service
 - Oracle Database Schema
 - PL/SQL Application Programming Interfaces
 - Application Specific Test Data
 - APEX Data Maintenance Forms

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Database Design and Generation Service (DDGS) Presentations

A Series of 5 Presentations

1. **DDGS Deliverables**
2. DDGS Generated API
3. DDGS Generated Data Handling
4. DDGS Generated Subtypes
5. DDGS Generated History and Audit

Presentations do not cover all functionality

1. DDGS Service Deliverables

- Deployment Tools
 - Overview
 - Oracle Database 11g
 - Web Browser and Adobe Reader
 - Basic O/S Software
- Documentation Overview
- Loading Source Code
- Loading Test Data
- Verify Configuration

Deployment Tools Overview

- Oracle Database 11g
- Web Browser (optional)
- Adobe Reader (optional)
- Basic O/S Software
 - Command Prompt
 - Text Editor

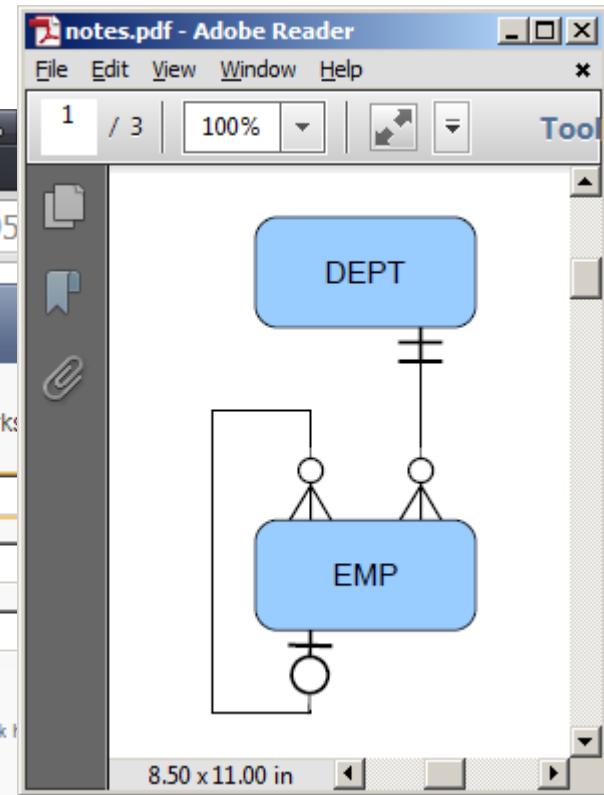
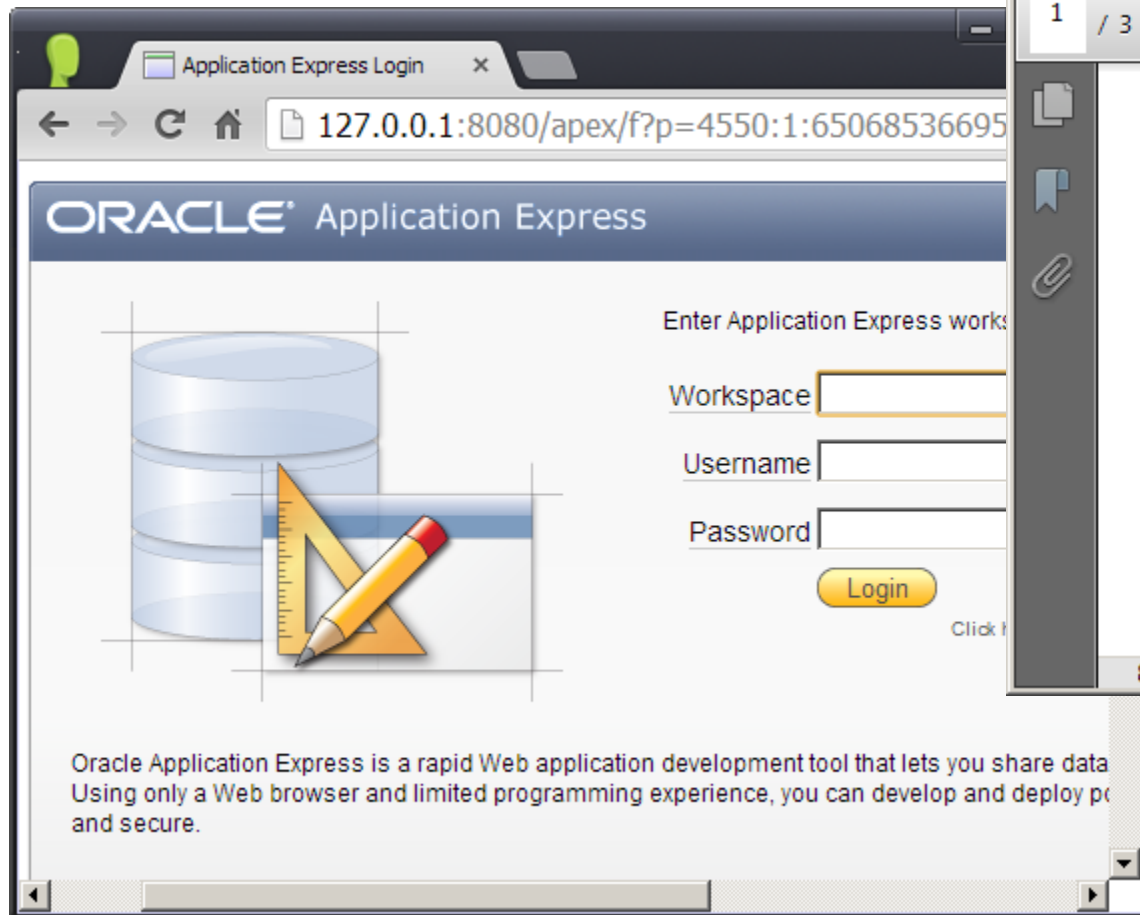
Deployment Tools

Oracle Database 11g

- Oracle Express Edition (XE)
- Oracle Standard Edition One (SE1)
- Oracle Standard Edition (SE)
- Oracle Enterprise Edition (EE)
- Oracle Real Application Clusters (RAC)
- Oracle Exadata

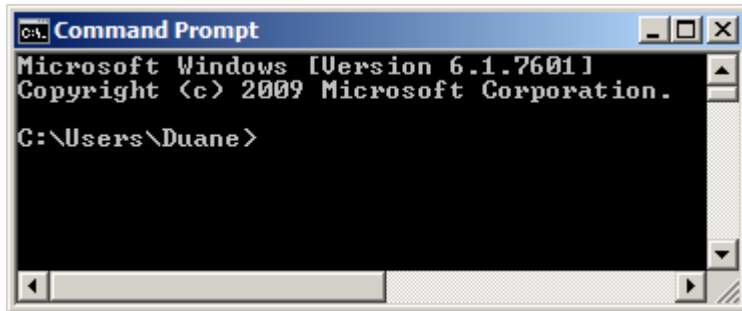
Deployment Tools

Web Browser and Adobe Reader



Deployment Tools

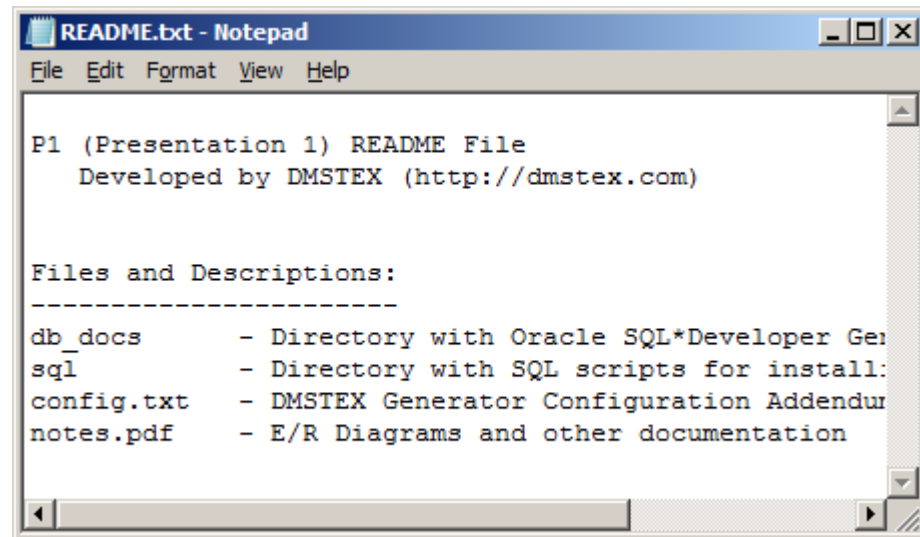
Basic O/S Software



A screenshot of a Windows Command Prompt window. The title bar reads "C:\ Command Prompt". The text inside the window shows the Microsoft Windows version (6.1.7601) and copyright information (© 2009 Microsoft Corporation). The current directory is "C:\Users\Duane>".

```
C:\ Command Prompt
Microsoft Windows [Version 6.1.7601]
Copyright (c) 2009 Microsoft Corporation.

C:\Users\Duane>
```



A screenshot of a Notepad window titled "README.txt - Notepad". The window contains the following text:

```
File Edit Format View Help

P1 (Presentation 1) README File
  Developed by DMSTEX (http://dmstex.com)

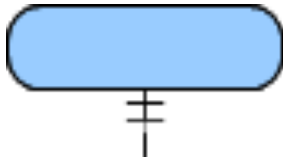
Files and Descriptions:
-----
db_docs      - Directory with Oracle SQL*Developer Gen
sql          - Directory with SQL scripts for install:
config.txt   - DMSTEX Generator Configuration Addendur
notes.pdf    - E/R Diagrams and other documentation
```


1. DDGS Service Deliverables

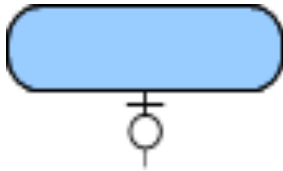
- Deployment Tools
- Documentation Overview
 - E-R Diagram - Notation
 - E-R Diagram - P1
 - SQL*Developer DB Docs
 - Configuration Addendum
- Loading Source Code
- Loading Test Data
- Verify Configuration

Documentation Overview

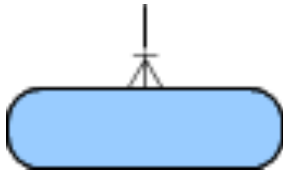
E-R Diagram - Notation



One and Only One (Required Parent)



Zero or One (Optional Parent)



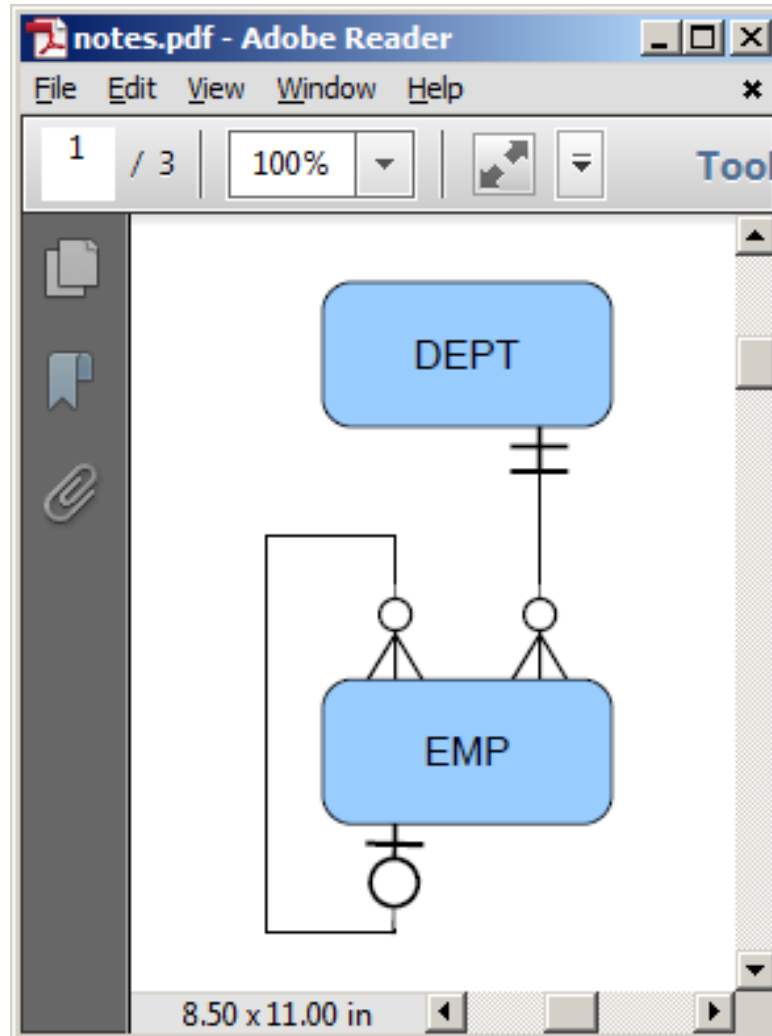
One or More (Required Child)



Zero or More (Optional Child)

Documentation Overview

E-R Diagram - P1



Documentation Overview

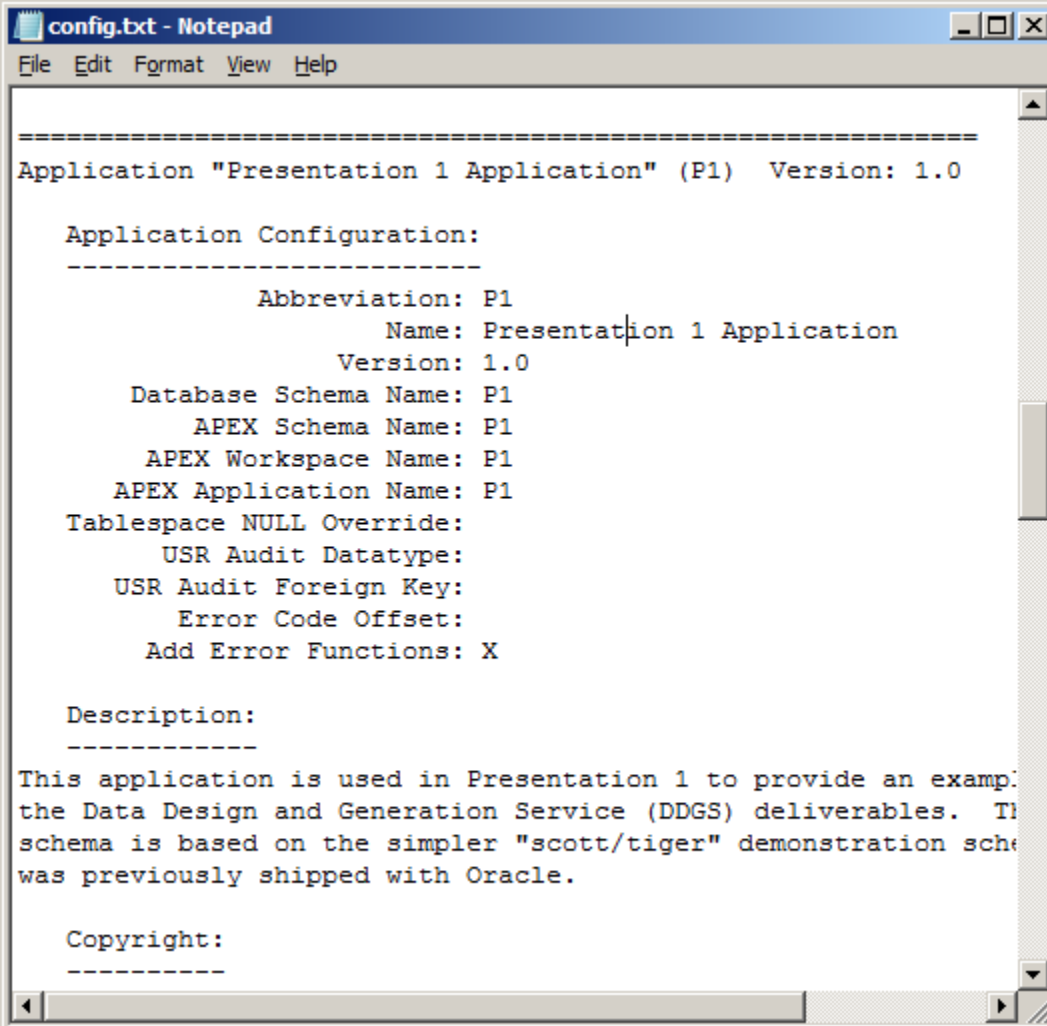
SQL*Developer DB Docs

The screenshot shows a web browser window displaying the documentation for the **EMP_DML** package. The browser's address bar shows the file path: `file:///C:/Users/Duane/DMSTEX/dtgen/aws_svn/tr`. The page has a blue header with the title **EMP_DML** and navigation tabs for **Doc**, **Details**, **Grants**, **References**, **Dependencies**, and **Code**. A left-hand navigation pane lists various database objects under the heading **P1**, including **Tables**, **Views**, **Indexes**, **Packages**, **Triggers**, **Types**, and **Sequences**. Below this, a section titled **Packages** lists several packages: **DEPT_DML**, **DEPT_TAB**, **EMP_DML** (which is selected), **EMP_TAB**, **JOB_NAME_DOM**, **UTIL**, and **UTIL_FLOW**. The main content area displays the **Package Emp_Dml** and a **Method Summary** table. The table lists three methods: **clear** for setting a "view" record to null, **clear** for returning a varchar2 value and trapping error messages, and **clear** for setting a "table" record to null.

SUMMARY:	FIELD	TYPE	METHOD
Package Emp_Dml			
Method Summary			
<code>clear</code>	<code>n_rec</code>	<code>in out nocopy emp_ACT % ROWTYPE</code>	Set a "view" record to null
<code>clear</code>	<code>n_rec</code>	<code>in out nocopy emp_ACT % ROWTYPE</code>	return varchar2 ; This function traps and returns any error message from the clear procedure
<code>clear</code>	<code>n_tab</code>	<code>in out nocopy emp % ROWTYPE</code>	Set a "table" record to null

Documentation Overview

Configuration Addendum



```
config.txt - Notepad
File Edit Format View Help
=====
Application "Presentation 1 Application" (P1) Version: 1.0

Application Configuration:
-----
      Abbreviation: P1
      Name: Presentation 1 Application
      Version: 1.0
Database Schema Name: P1
  APEX Schema Name: P1
  APEX Workspace Name: P1
  APEX Application Name: P1
Tablespace NULL Override:
  USR Audit Datatype:
  USR Audit Foreign Key:
  Error Code Offset:
  Add Error Functions: X

Description:
-----
This application is used in Presentation 1 to provide an example of
the Data Design and Generation Service (DDGS) deliverables. The
schema is based on the simpler "scott/tiger" demonstration schema
which was previously shipped with Oracle.

Copyright:
-----
```

1. DDGS Service Deliverables

- Deployment Tools
- Documentation Overview
- Loading Source Code
 - Unzip and Review
 - Prerequisites
 - Schema and API Installation
- Loading Test Data
- Verify Configuration

Loading Source Code

Unzip and Review

- Unzip P1_V1.1.zip
- Open README.txt
- Open P1_notes.pdf
- Open db_docs/index.html
- Open gen_config.txt

Loading Source Code

Prerequisites

- "vars.sql" file in "sql" directory
- sqlplus sys/password as sysdba
- APEX: <http://127.0.0.1:8080/apex>

<http://www.oracle.com/technetwork/products/express-edition/downloads/index.html>

Loading Source Code Schema and API Installation

- sqlplus sys/password as sysdba @install
- Review install.LST
- sqlplus p1/p1
- SQL> select table_name from user_tables;

```
TABLE_NAME
```

```
-----
```

```
DEPT
```

```
EMP
```

```
UTIL_LOG
```

```
SYS_IOT_OVER_20063
```

```
SYS_IOT_OVER_20066
```

```
UTIL_NVP
```

```
UTIL_TRC
```

1. DDGS Service Deliverables

- Deployment Tools
- Documentation Overview
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Loading Test Data

- sqlplus /nolog @test_data
- Review test_data.LST
- sqlplus p1_usr/p1_usr
- SQL> select dname from dept;

DNAME

ACCOUNTING

RESEARCH

SALES

OPERATIONS

1. DDGS Service Deliverables

- Deployment Tools
- Documentation Overview
- Loading Source Code
- Loading Test Data
- Verify Configuration
 - Application User Configuration
 - Application Security
 - APEX Forms

Verify Configuration

Application User Configuration

- SQL> select synonym_name from user_synonyms
where synonym_name like 'D%';

```
SYNONYM_NAME
```

```
-----
```

```
DEPT
```

```
DEPT_ACT
```

```
DEPT_SEQ
```

```
DEPT_DML
```

```
DEPT_VOBJ
```

```
DEPT_VTAB
```

Verify Configuration

Application Security

- Authentication (Who wants access?)
 - P1 - Schema Owner
 - P1_USR - Application User
- Authorization (What can they access?)
 - P1_APP - Application User Role
 - P1_ADM - Application Administration Role

Verify Configuration

APEX Forms

- <http://127.0.0.1:8080/apex>
 - DDGS GUI Version - Data Maintenance Forms
 - DDGS DB Version - Schema and API
- <http://127.0.0.1:8080/apex/f?p=201>

1. DDGS Service Deliverables

- Deployment Tools
- Documentation Overview
- Loading Source Code
- Loading Test Data
- User Configuration
- Loading APEX Forms

<http://www.dmstex.com>