

Oracle Installation and Usage

Raymond E. Marcil
<raymond.marcil@alaska.gov>

August 3, 2020

VERSION: 0.0.1

Abstract

Oracle database installation, client access, maintenance, user configuration, grants, and privileges.

**Alaska Department of Transportation & Public Facilities
Statewide Design & Engineering Services
820 East 15th Avenue
Anchorage, Alaska 99501**

Contents

Contents	2
List of Definitions and Abbreviations	3
Introduction	4
Installation	5
Instance	6
Create	6
Datafiles	7
Recover and Restore	8
Examples	9
Escaping < and > Symbols	9
Enumerate	9
Comments	9
Questions	10
Endnotes	11
Appendix	12
Books	12
Scripts	12
Hyperlinks	12

List of Definitions and Abbreviations

- **Database** - “A database is a set of physical files on disk created by the CREATE DATABASE statement. The instance manages its associated data and serves the users of the database.”¹
- **Instance** - “A database instance is a set of memory structures that manage database files.”²

¹Introduction to the Oracle Database Instance, Oracle Database Instance, Database Concepts, Oracle Database, Release 12.2, <https://docs.oracle.com/en/database/oracle/oracle-database/12.2/cncpt/oracle-database-instance.html>

²Ibid.

Introduction

”There are 3 steps to begin using AWStats:³

- I. Setup: Installation and configuration
- II. Process logs: Building/updating statistics database
- III. Run Reports: Building and reading reports

³AWStats Installation, Configuration and Reporting
<https://awstats.sourceforge.io>

Installation

AWStats v7.3 and v7.7 are installed on the `intdev`⁴ server from package.

The installed versions include:

- AWStats v7.3-1
- AWStats v7.7-1.1.el6

⁴`intdev - dnr.wintdev.dnr.state.ak.us` (204.89.222.43)

Instance

“A database instance is a set of memory structures that manage database files.

A database is a set of physical files on disk created by the CREATE DATABASE statement. The instance manages its associated data and serves the users of the database.

Every running Oracle database is associated with at least one Oracle database instance. Because an instance exists in memory and a database exists on disk, an instance can exist without a database and a database can exist without an instance.”⁵

Create

⁵Introduction to the Oracle Database Instance, Oracle Database Instance, Database Concepts, Oracle Database, Release 12.2,<https://docs.oracle.com/en/database/oracle/oracle-database/12.2/cncpt/oracle-database-instance.html>

Datafiles

Oracle 12.2.0 running under Windows 10 (64-bit) saves databases as datafiles under
C:\oracle\oradata\cdb1\pdb1\PDB1\DATAFILE ⁶

⁶From inspection of Windows 10 filesystem on Monday August 3, 2020.

Recover and Restore

[FIXME: Need content...]

Examples

Series of useful L^AT_EX markup. Need to break out to separate examples.tex file.

Escaping < and > Symbols

To get $\$<\$$ or $\$>\$$ just wrap the symbols in $\$$ for math mode.

Enumerate

1. DNR - Alaska State Department of Natural Resources
 - HI - Historical Index, not maintained since 1982
 - LE - Land Estate, maintained by SGU
 - ME - Mineral Estate, maintaind by SGU
2. Alaska State Surveys
 - ASBLT - As-Built Survey
 - ASCS - Cadastral Survey

Comments

COMMENTS Comment — *Sean Weems, Spring 2003*

We should get the **COMMENTS** column searchable via the landrecords application before we do much anything else – shouldn't be too hard.

Errata: Plats spanning multiple sections

A few anomalies can be observed in the **AKPLATS** table. Specifically plats exist that span multiple sections. Since the table only has a single column, **SCODE**, that accepts a single section code, SGU (Status Graphics Unit) has handled this problem by entering multiple rows in the table, each with a different section that point to the same plat or file. Multiple section plats are indicated by setting the **TCODE** column to the value 37, and making an appropriate notation like *Section 24-25-26-27* in the **REMARKS** column.

[FIXME: Perhaps the **SCODE** column should accept an array of sections?]

Questions

- Break table column over two rows?

Endnotes

Appendix

Books

[FIXME: Need books here...]

Scripts

[FIXME: Need scripts here.]

Hyperlinks

Introduction to the Oracle Database Instance, Oracle Database Instance,
Database Concepts, Oracle Database, Release 12.2

[https://docs.oracle.com/en/database/oracle/oracle-database/12.2/cncpt/
oracle-database-instance.html](https://docs.oracle.com/en/database/oracle/oracle-database/12.2/cncpt/oracle-database-instance.html)