

# 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

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

## 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.”<sup>1</sup>
- **Instance** - “A database instance is a set of memory structures that manage database files.”<sup>2</sup>

---

<sup>1</sup>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>

<sup>2</sup>Ibid.

# Introduction

”There are 3 steps to begin using AWStats:<sup>3</sup>

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

---

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

# Installation

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

The installed versions include:

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

---

<sup>4</sup>`intdev - dnratwintdev.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.” <sup>5</sup>

## Create

---

<sup>5</sup>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>

## Datafiles

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

---

<sup>6</sup>From inspection of Windows 10 filesystem on Monday August 3, 2020.

## Examples

Series of useful L<sup>A</sup>T<sub>E</sub>X 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)