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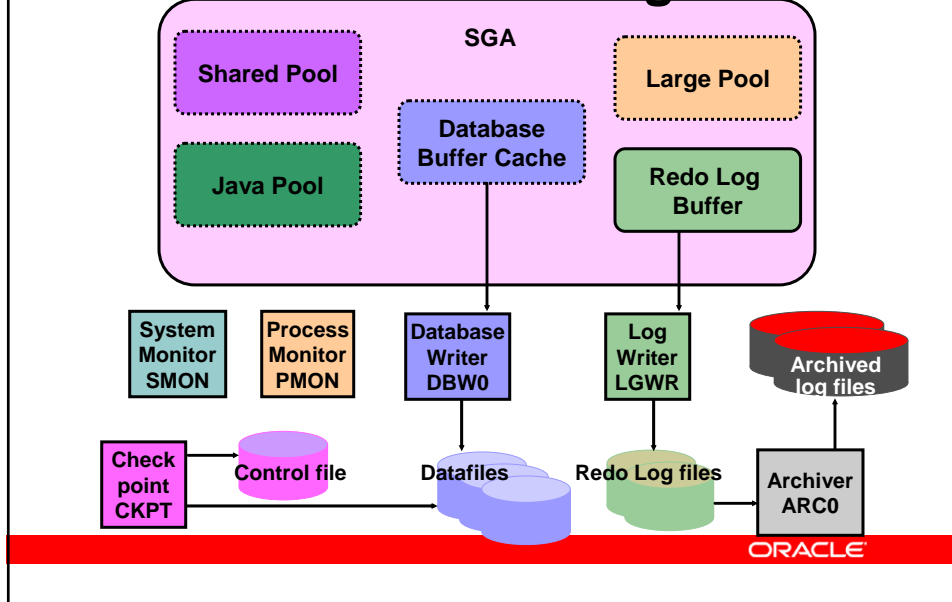
C. Bourboulas
Principal Sales Consultant

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Database Structures

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Oracle Instance Management



Starting the Instance by Using Windows Services

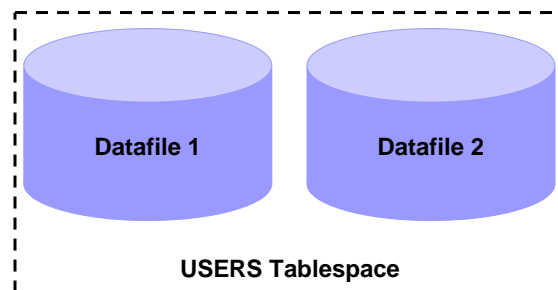
- Start the following services:
 - OracleService<SID>
 - Oracle<oracle_home><SID>TNSListener
 - Oracle<oracle_home><SID>DBConsole
- Access Services from Administrative Tools in the Control Panel.

Storage Structures

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Tablespaces and Datafiles

- Tablespaces comprise one or more datafiles
- Datafiles belong to only one tablespace
- Segments can span datafiles within a tablespace



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Tablespaces in the Preconfigured Database

- **SYSTEM:** Contains data dictionary tables and other administrative data
- **SYSAUX:** Auxiliary tablespace to the **SYSTEM** tablespace
- **TEMP:** Contains transient data that persists only for the duration of the session
- **UNDO:** Contains undo segments
- **USERS:** Default tablespace for all objects created by nonsystem users

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Dropping a Tablespace

- When you drop a tablespace the following actions take place:
 - Objects that were stored in the tablespace are removed.
 - Datafiles are deleted from the operating system.

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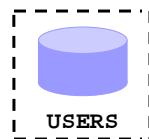
Users and Security

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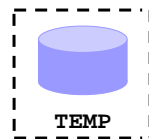
Overview of Users and Security



Authentication



Default
tablespace



Temporary
tablespace

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Oracle-Defined Users

- The following user accounts are created, when the database is created:
 - SYS: Database administrative user
 - SYSTEM: Database administrative user
 - SYSMAN: Oracle Enterprise Manager user
 - DBSNMP: Used by Oracle Enterprise Manager
 - Sample schema users: HR, OE, SH, and others

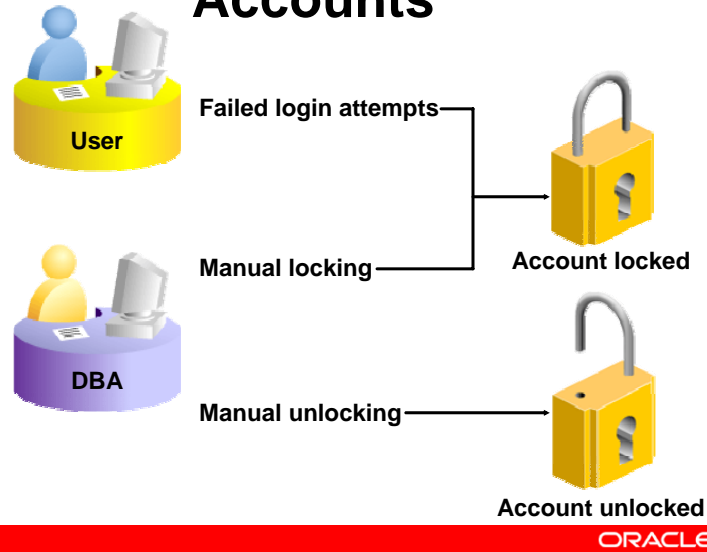
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Dropping Users

- When you drop a user, the following takes place:
 - The user's definition is deleted.
 - The user loses ability connect to the database.
 - All objects that belong to the user are dropped.

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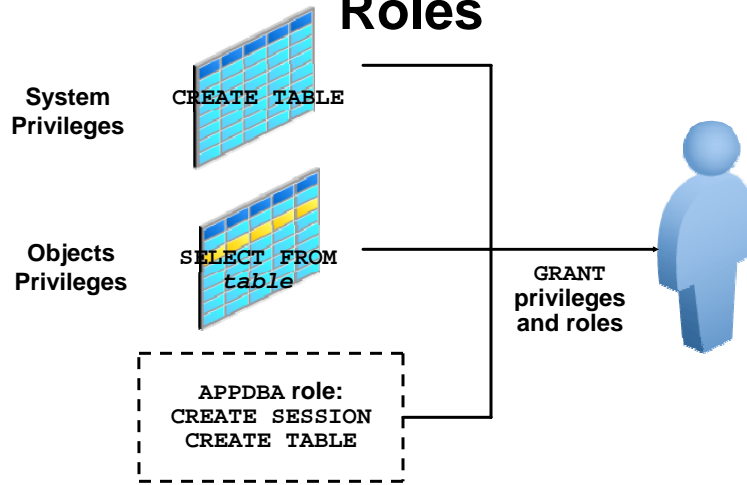
Locking and Unlocking Accounts



Administrative Privileges

- SYSDBA and SYSOPER privileges
- Methods of authentication:
 - Operating system
 - Password file

Administering Privileges and Roles



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Database Objects

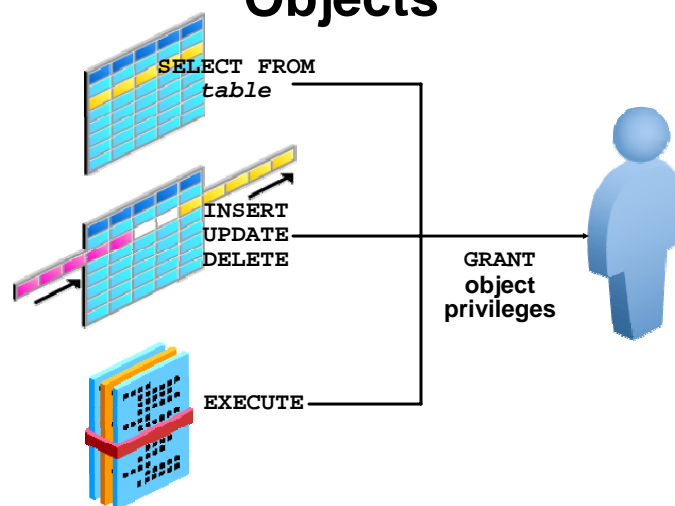
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Managing Database Resident Program Units

- Use SQL Developer to manage the following types of database resident program units:
 - Packages
 - Package bodies
 - Stand-alone subprograms
 - Procedures
 - Functions
 - Database triggers

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Managing Access to Schema Objects



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Moving data in and out

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Moving data in and out

- Import / Export
 - Oracle to Oracle
- SQL Loader
 - ASCII-Exports
- External Tables
 - using SQL to access ASCII-Files
- Application Express

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Oracle Database 10g
Express Edition

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Agenda

- Oracle XE Overview
- Processors and Operating Systems
- Comparison to commercial Oracle DB versions
- Tools to access Oracle XE

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Oracle XE Overview

- Available on Linux (rpm/deb) and Windows
 - 32-bit
- Based on Oracle Database 10g Release 2
- Free to develop, deploy, and distribute
 - Including ISVs
- ~ 260MB to download
- Quick & easy install

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Oracle XE Overview cont.

- Can be installed on any size host machine with any number of CPUs, but
 - 1 database per machine
 - Store up to **4GB** of user data
 - Use up to **1GB** of memory
 - Use **1 CPU** on the host machine
- Supported by free online community forum
 - Hosted and monitored by Oracle experts

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Reviews

- "An extremely good product"
 - [Link](#)

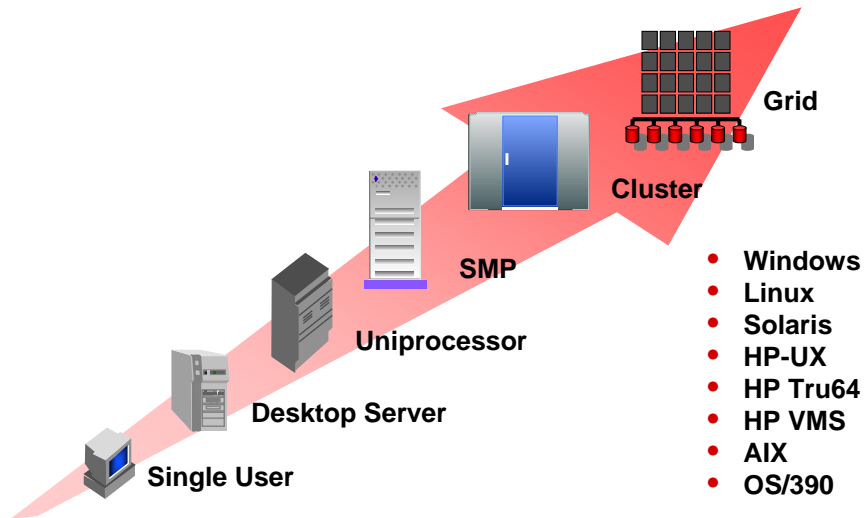
The logo for developer.com, featuring the text "developer.com" in white on a blue background with a registered trademark symbol.

- Product Excellence Award for Best Database Solution
 - [Link](#)



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Develop Once, Deploy Anywhere



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Oracle Database Product Family

Express Edition	Standard Edition One	Standard Edition	Enterprise Edition
Non-Oracle developers, open source developers, new DBAs, students, non-Oracle ISVs, hw vendors	Low-price option for SMB/LOB Deployments, ISVs who need a supported Oracle database	Full-featured database for SMBs with optional clustering support (up to 4 CPUs)	Large-scale Enterprises that demand high-performance BI (ETL, DW, OLTP), security, scalability, availability, etc.
FREE	\$149/user (min. 5) or \$4,995 per CPU	\$300/user or \$15,000 per CPU	\$800/user or \$40,000 per CPU
< 20 users	< 400 users	400-1000 users	> 1000 users
Uses 1 CPU < 4GB DB size 1 instance per CPU Use up to 1GB RAM	2 CPU < 500GB DB size	Single or clustered up to 4 CPUs < 500 GB DB size	4+ CPUs > 500 GB DB size
Free OTN Community Forum	Fee-based Support available	Fee-based Support available	Fee-based Support available

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SE features absent from XE

- Online system changes
- Java in DB, SQLJ, Java Server Pages
- Database Web Services
- XQuery
- 64-Bit support
- Oracle Enterprise Manager
- Automatic Storage Management
- Oracle Workflow
- Transparent Gateways
- Oracle Names
- Oracle Workspace Manager
- Ultrasearch
- InterMedia
- Server Managed Backup & Recovery
- Flashback Database
- Synch. Change Data Capture

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Tools

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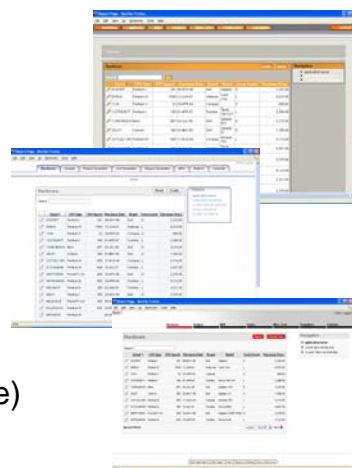
Complete Application Development Support

Development Community	Oracle Provides
Compiled Languages - C and C++, Cobol, etc	OCI and OCCI, PreCompilers
Windows/.Net	Visual Studio Add-In, ODBC/ODP.Net Drivers, CLR support in the Database
Java	JDeveloper, JDBC/SQLJ, Java Support in the Database
PHP	ZendCore Drivers
Database	Application Express, SQL Developer, PL/SQL

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Application Express

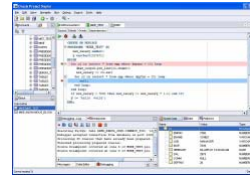
- Quick assembly of reporting and data entry applications
- No programming or scripting
- Instant deployment on the Web
- Use the full power of Oracle Database 10g
- Free (included with the DB license)



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SQL Developer

- Database Development Productivity Tool
- Targeted at the DBA - Developer
- Rich Client SQL and PL/SQL functionality
- Optimized out of box experience
- Java based, simple to install
- **Free**



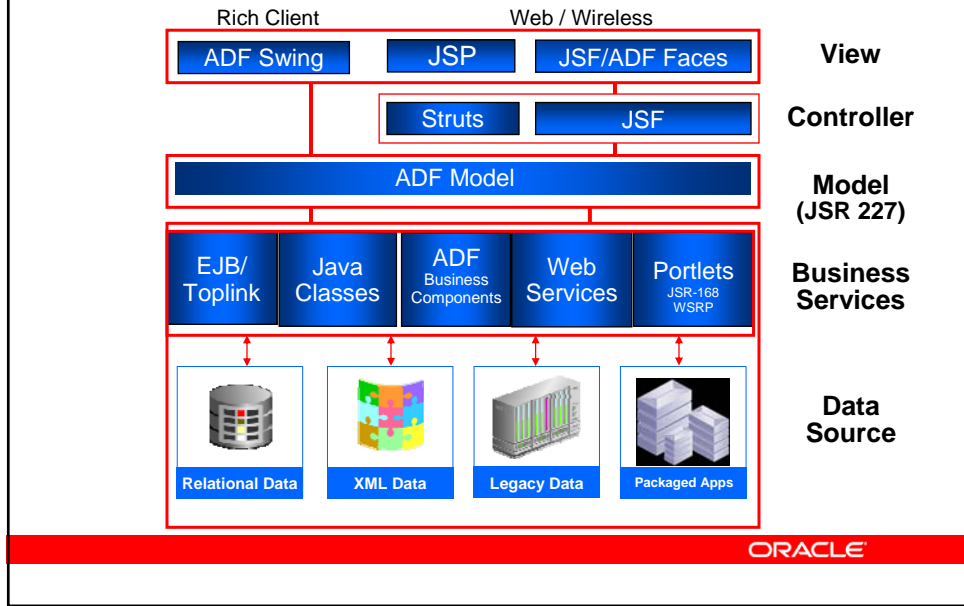
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Oracle JDeveloper 10g

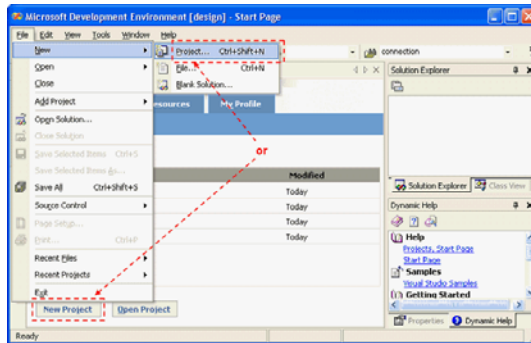
- **Complete and Integrated**
 - Full development lifecycle
 - One tool for Java, Web Services, XML, DB and more
- **Standard and Extensible**
 - Support industry standards
 - Integrate Open Source Utilities
 - Open Extension API (JSR 198)
- **Easy to Use and Productive**
 - Improved coding productivity
 - Visual and declarative development
 - Oracle Application Development Framework (Oracle ADF)
- **FREE**

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ADF Architecture



.Net Development



- Visual Studio Integration
- Callout to Common Language Runtime
- ODP.Net Fast Connection Failover

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PHP 5



- SEAMLESS OUT-OF-THE-BOX EXPERIENCE
 - Instant PHP setup
 - Includes Oracle Instant Client libraries
 - Supports popular Web servers and operating systems
 - Includes PHP online documentation
 - Integrates with Zend Studio™ for PHP debugging and profiling
- ZEND NETWORK: COMPREHENSIVE PHP SUPPORT
 - Thoroughly tested PHP environment
 - Bug and security fixes are available periodically
 - Zend's PHP bug fixes are shared with the PHP community
- FLEXIBLE PHP CONFIGURATION CONTROL
 - Easy to use Web-based management interface
 - Powerful and granular PHP configuration control
- FREE

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Useful links

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OTN.oracle.com

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TECHNOLOGY NETWORK

Welcome Costantinos (Sign Out) Account

secure search

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by The Tom Kyle Blog

[OCFS2 or ASM for Apps 11i?](#)

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by The Oracle E-Business Suite Blog

["Meet the Experts" at Oracle OpenWorld](#)

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by OTN TechBlog

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