

## **One Architecture for**

- Real-Time Healthcare Care**
- Multi-Line Insurance**
- Clinical Medicine**
- Risk & Disease Management**
- Integrated Application Development**

## Goals and Objectives

- Create an Integrated “View” of Healthcare and Insurance Data
- Reduce Hospital Admissions & Adverse Events
- Reduce Deaths and Disability
- Reduce the Absolute Number and Costs of Procedures
- Increase Patient/Employee Satisfaction
- Delay the Onset of Chronic Illness
- Convert Reserves to Profit and then Reduce Reserves

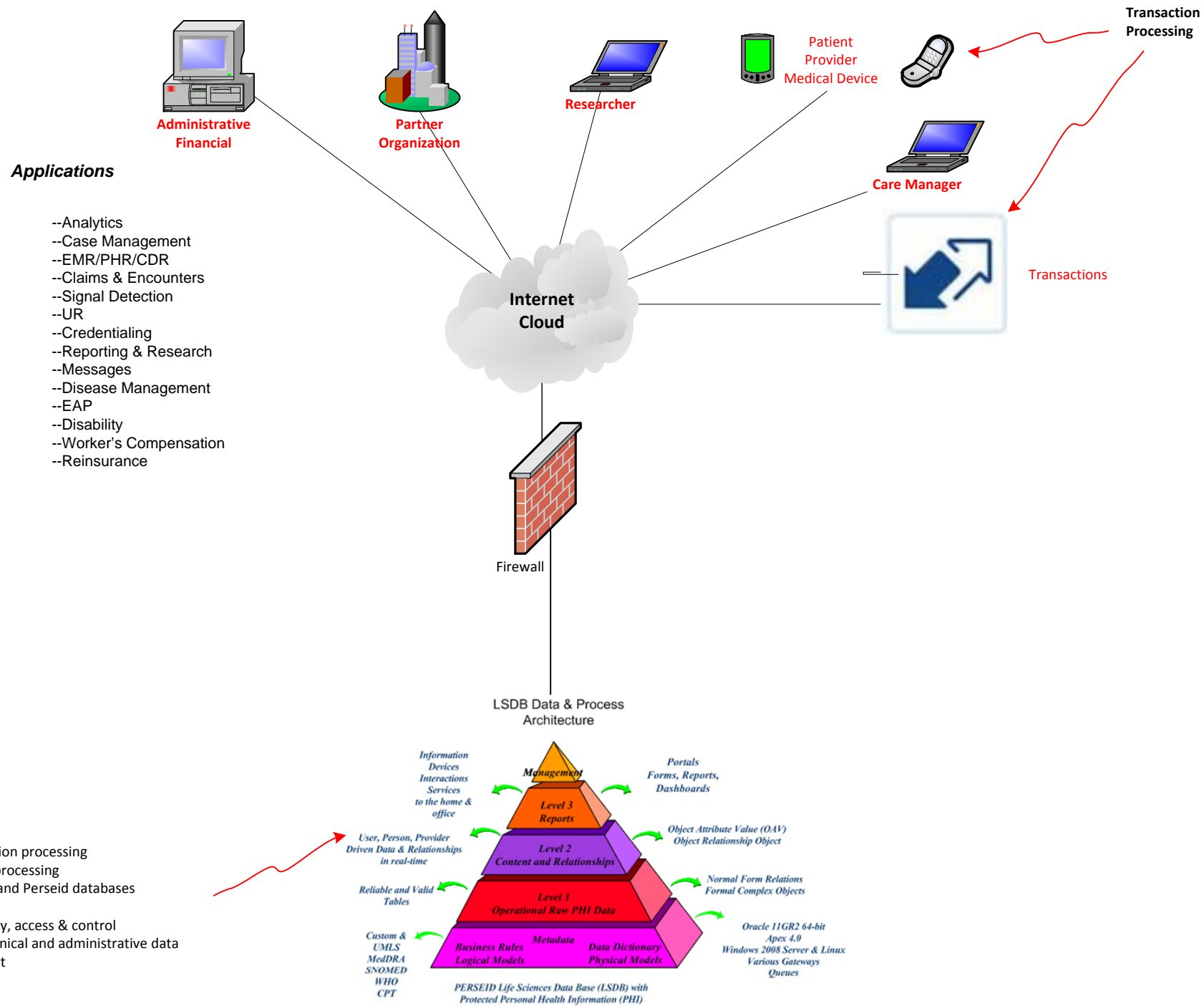
A Software Product for Managing Integrated Care and  
Financial Risk

- Applications for Clinical, Financial and Administrative Patient Risk:
  - Group & Personal Health, Disability, WC, EAP, OHS
- EMR/PHR/CDR Application for Capturing Patient/Family Attributes
- Wellness and Disease Management Application for Program Design
- Mobile Healthcare Application for Care Managers and Patients
- Provider Credentialing and Risk Management through UR
- Document and Image Management Application
- Financial Application for Analyzing Clinical and Financial Risk

A Software Product for Building  
Insurance & Clinical Applications

- Designed for Internal Development and Systems Integration
- One Logical Database for All Lines of Risk
- Scalable to Millions of Covered Lives in Oracle 11G RAC
- Fully Internet 2.0 and Cloud Enabled (Sessions & SaaS)
- Integrated Security, Access and Control and Audit
- One Source Code Library for all Applications
- Designed and Built Using Computer-Aided Design
- Portable to all Operating Systems and Hardware for Oracle
- Applications and Source Code come with the Product

# Integrated Applications For Insurance, Finance & Clinical Care Using One Logical Database



- Applications**
- Analytics
  - Case Management
  - EMR/PHR/CDR
  - Claims & Encounters
  - Signal Detection
  - UR
  - Credentialing
  - Reporting & Research
  - Messages
  - Disease Management
  - EAP
  - Disability
  - Worker's Compensation
  - Reinsurance

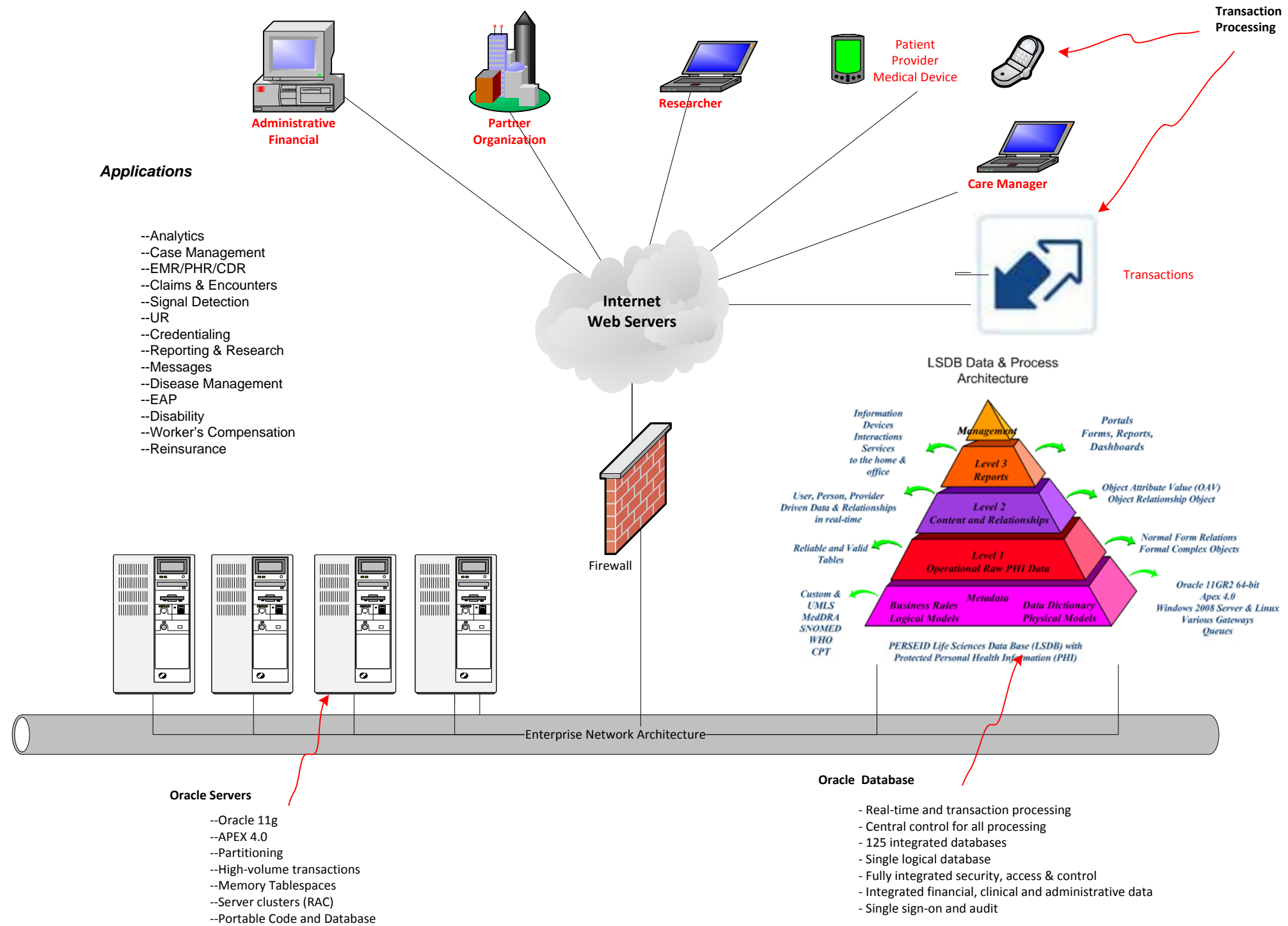
**Oracle Databases**

- Real-time and transaction processing
- Central control for all processing
- 125 integrated Oracle and Perseid databases
- Single logical database
- Fully integrated security, access & control
- Integrated financial, clinical and administrative data
- Single sign-on and audit

# Life Sciences Universe Functionality & Information Model

Users	Entities	Patient Family Member Friends Community	Medical Device Computer Cell Phone PDA	Provider Facility Organization	Facility Office Plant Network	Manager Analyst Nurse Physician Researcher	Analytical Rules Engine	
Transactions	Types	Person Home Device Phone Computer Internet	Home Office Facility Network	Internet HL7 Oracle Gateways	Languages ECL ETL EFL	Web Services SMS Email	Transactions Alerts Messages Events Services	
Businesses	Lines of Business	Group & Personal Health	Disability Short- & Long Term	Worker's Compensation Occupational Health	Self-insurance Reinsurance	Care Management Wellness Disease Management COE	Research & Clinical Trials Outcomes Effectiveness	Clinical Medicine Services Order Entry
Solutions	Applications	Life Sciences & Healthcare Models	Integrated Care & Case Management	Personal Health & Medical Home	Financial Management	Patient Management	Facility Management	Image & Document Management
Analysis	Methods	Clinical Administrative Financial Social Personal	Objects Rules Networks Analytics	Country Region Facility Provider Family Person	QA/QC Econometrics Statistics GLM	Trials Programs Protocols Episodes Transactions	Classifications Summaries Network Analysis	Forms Reports Charts Messages
Data	Information Models	Entities Relationships Terms	Claims Encounters CDR/PHR/PHI Documents Multimedia	Vocabulary Formal & Customer	Insurance & Re- Insurance Disability OHS	Cohorts Families Trials Facilities	Patient Facility Enterprise	Audit Security Access Control

**One Architecture for Integrated Care  
One Logical Database  
One Integrated Application Library**



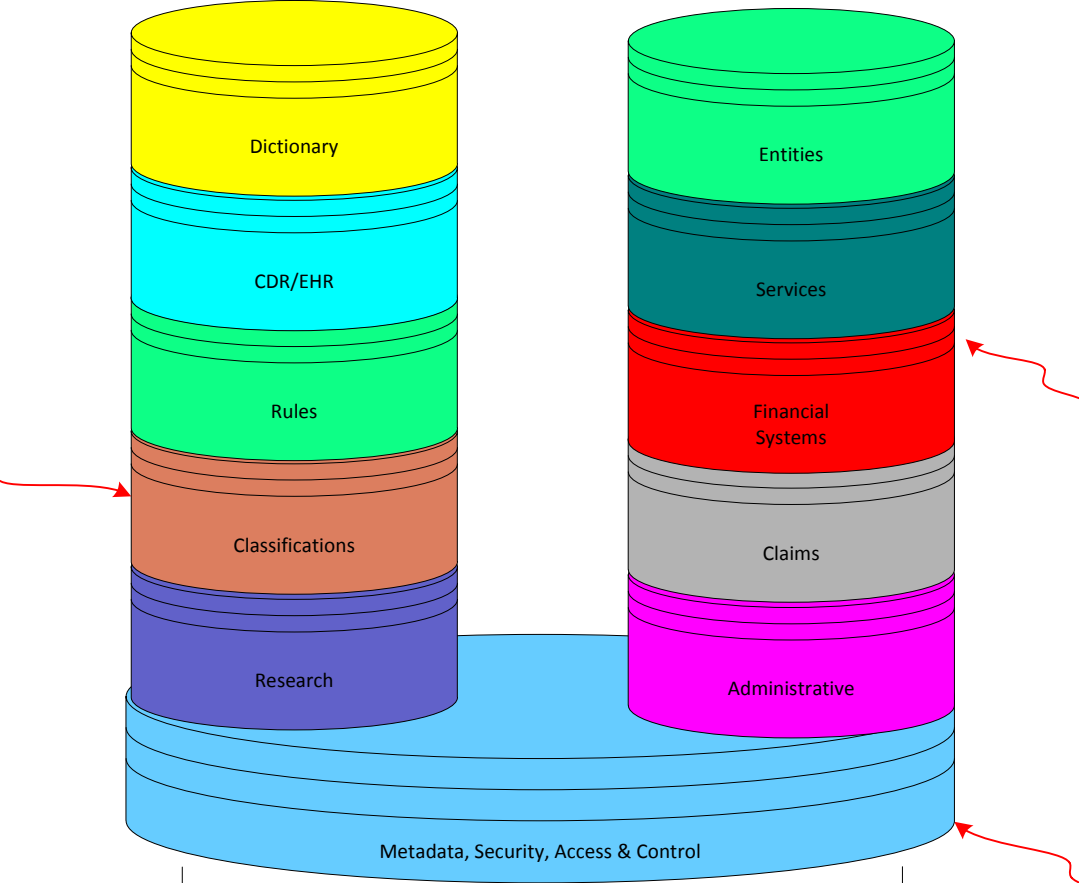
**Applications Share  
"Pages", Functions & Databases  
in Oracle**

**Clinical Processes**

- Dictionary
- Rules
- Codes
- CDR/PHR/EMR
- Patient Classifications
- Relationships
- Cohorts
- Real-time device data
- Incidents and Cases
- Clinical Metrics & Programs
- Quality Metrics & Programs
- Clinical Functions in ECL
- Services
- Orders
- Clinical Trials
- Patient Surveys
- Disease Management
- Centers of Excellence

**Administrative, Insurance, Financial & Social**

- Claims & Encounters
- Social Networks & Forums
- Providers
- Credentialing
- UR
- Financial Accounting
- Claims and Encounters
- Program Development
- Quality of Care
- Rules in EFL
- Financial Programs
- Predictive Modelling



**Foundation Systems Integration Architecture**

- Security, Access & Control
- Metadata
- Databases
- Tables
- Requirements
- CAD
- Source Code Pages and Functions
- Selective Transparency
- Internal Organizations
- External Organizations
- Partners
- Regulators
- Providers
- Consumers and patients



**Integrated Applications,  
Vocabulary, Transaction Processing,  
Rule Engine & One Logical Database**

**Applications**

- Analytics
- Case Management
- EMR/PHR/CDR
- Claims & Encounters
- Signal Detection
- UR
- Credentialing
- Reporting & Research
- Messages
- Disease Management
- EAP
- Disability
- Worker's Compensation
- Reinsurance

**Oracle Databases**

- Real-time and transaction processing
- Central control for all processing
- Single Audit point
- PL/SQL Function Calls
- Transaction Queues
- transactions
- webservices

