



# **SNS COLLEGE OF ENGINEERING**

Kurumbapalayam (Po), Coimbatore – 641 107

**An Autonomous Institution**

Accredited by NAAC – UGC with 'A' Grade

Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai



## **DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING**

**COURSE NAME : 23CS207 - DATABASE MANAGEMENT  
SYSTEMS**

**II YEAR / IV SEMESTER**

**Unit 2- Relational Model**

**Topic : Oracle**



- **ORACLE**
- It is a very large multi-user based database management system. Oracle is a relational database management system developed by 'Oracle Corporation'.
- Oracle works to efficiently manage its resources, a database of information among the multiple clients requesting and sending data in the network.
- It is an excellent database server choice for client/server computing. Oracle supports all major operating systems for both clients and servers, including MSDOS, NetWare, UnixWare, OS/2 and most UNIX flavors.



## History

Oracle began in 1977 and celebrating its 32 wonderful years in the industry (from 1977 to 2009).

1977 - Larry Ellison, Bob Miner and Ed Oates founded Software Development Laboratories to undertake development work.

1979 - Version 2.0 of Oracle was released and it became first commercial relational database and first SQL database. The company changed its name to Relational Software Inc. (RSI).

1981 - RSI started developing tools for Oracle.

1982 - RSI was renamed to Oracle Corporation.

1983 - Oracle released version 3.0, rewritten in C language and ran on multiple platforms.

1984 - Oracle version 4.0 was released. It contained features like concurrency control - multi-version read consistency, etc.

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2007 - Oracle released Oracle11g. The new version focused on better partitioning, easy migration, etc.



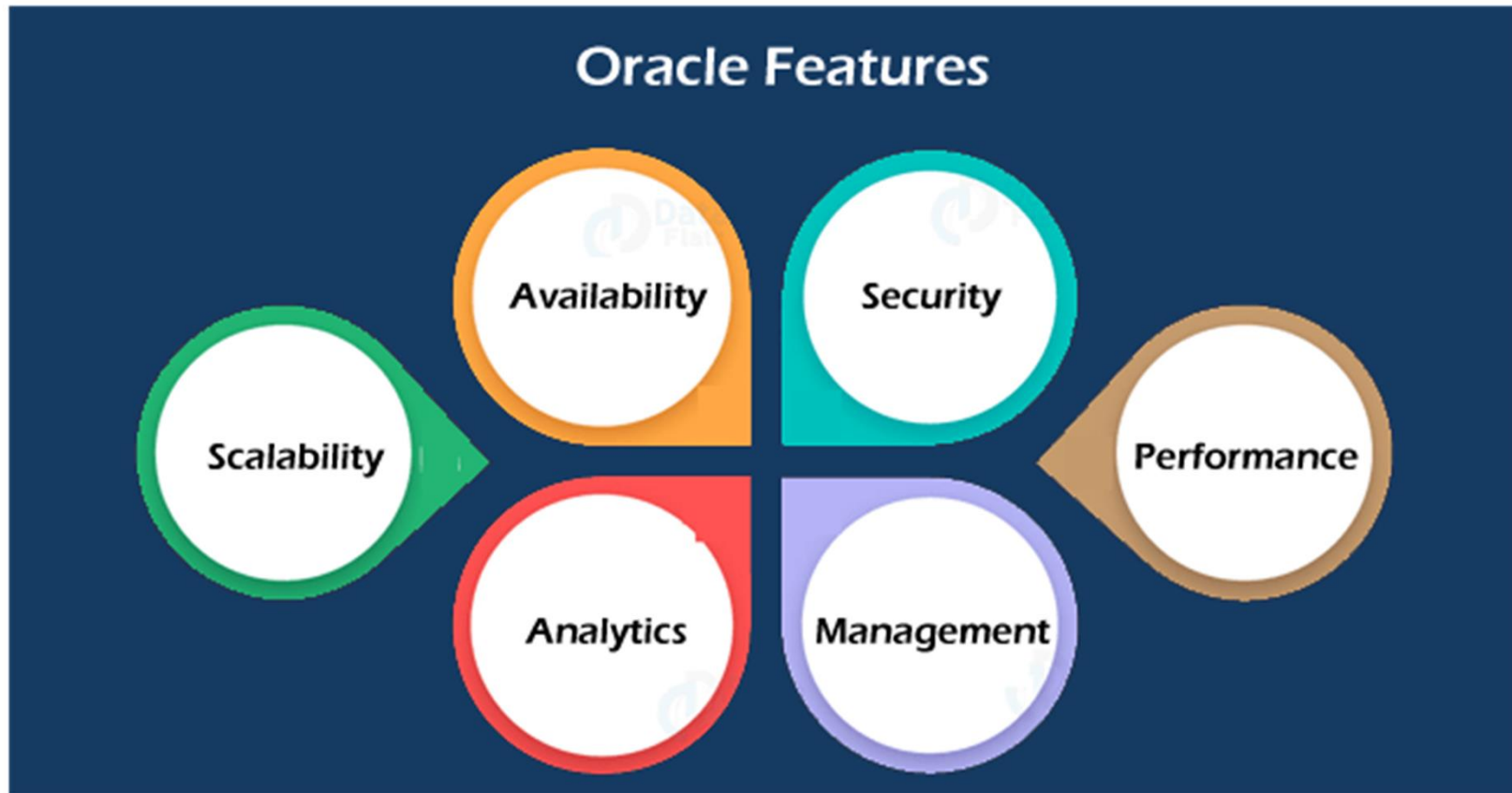
## Features



Concurrency  
Read Consistency  
Locking Mechanisms  
Quiesce Database  
Portability  
Self-managing database  
SQL\*Plus  
ASM  
Scheduler  
Resource Manager  
Data Warehousing  
Materialized views  
Bitmap indexes  
Table compression  
Parallel Execution, Analytic SQL , Data mining and Partitioning

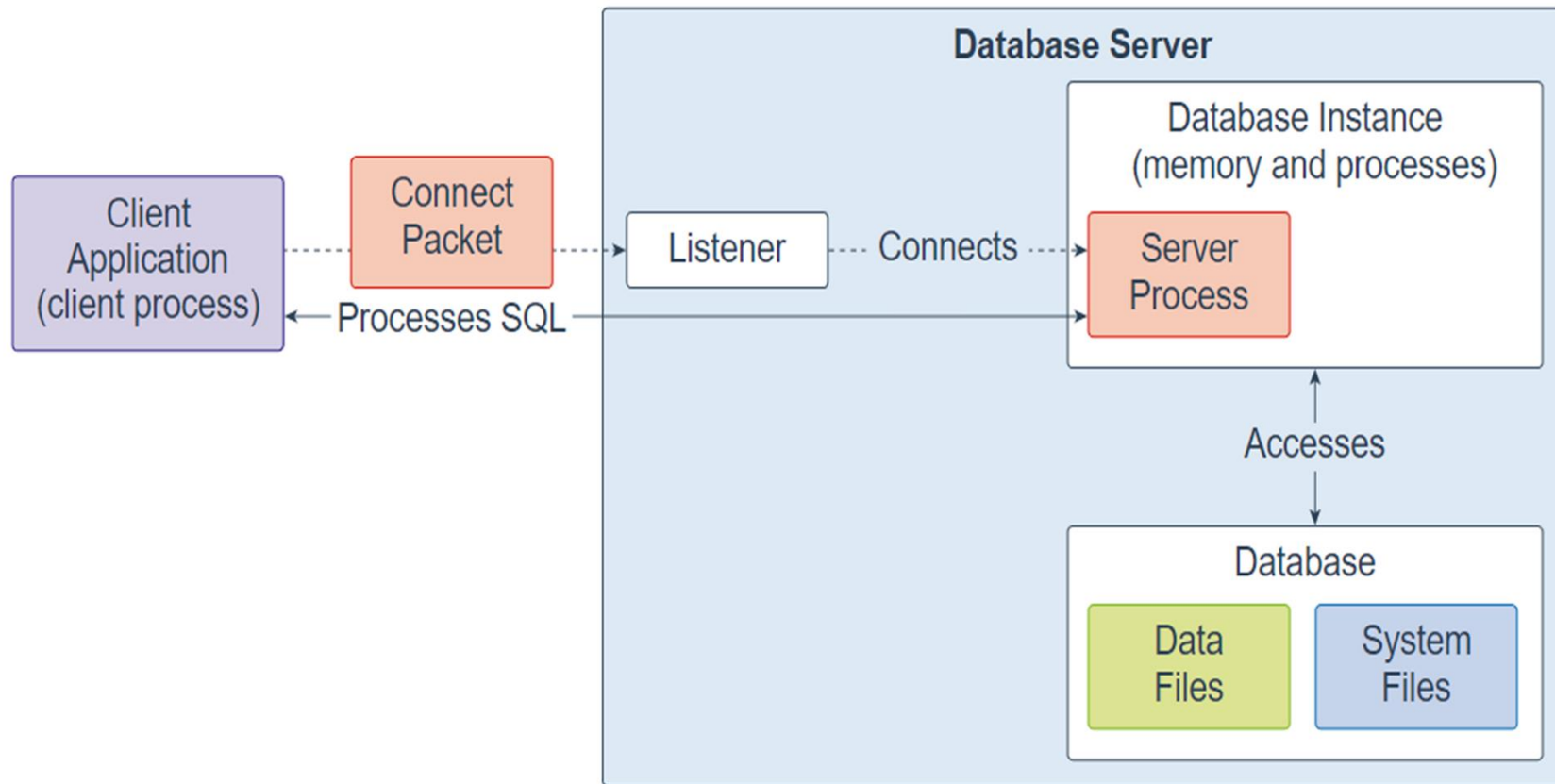


# Oracle





# Oracle Database





# Advantages



Performance

Backup and Recovery

Flashback Technology





# Disadvantages

- **Complexity**
- **Cost:** The price of Oracle products is very high in comparison to other databases. Therefore users are more likely to choose other less expensive options such as MS SQL Server, MySQL, etc.
- **Difficult to manage:** Oracle databases are often much more complex and difficult in terms of the management of certain activities.



## REFERENCES



1. Abraham Silberschatz, Henry F. Korth, S. Sudharshan, - Database System Concepts||, Sixth Edition, Tata McGraw Hill, 2011.
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3. C.J.Date, A.Kannan, S.Swamynathan, —An Introduction to Database Systems, Eighth Edition, Pearson Education, 2006.
4. Raghu Ramakrishnan, —Database Management Systems||, Fourth Edition, McGraw-Hill College Publications, 2015.

## THANK YOU