SNS COLLEGE OF ENGINEERING

Kurumbapalayam (Po), Coimbatore – 641 107

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

DEPARTMENT OF COMPUTER SCIENCE AND TECHNOLOGY

COURSE NAME : 23CST207 - 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
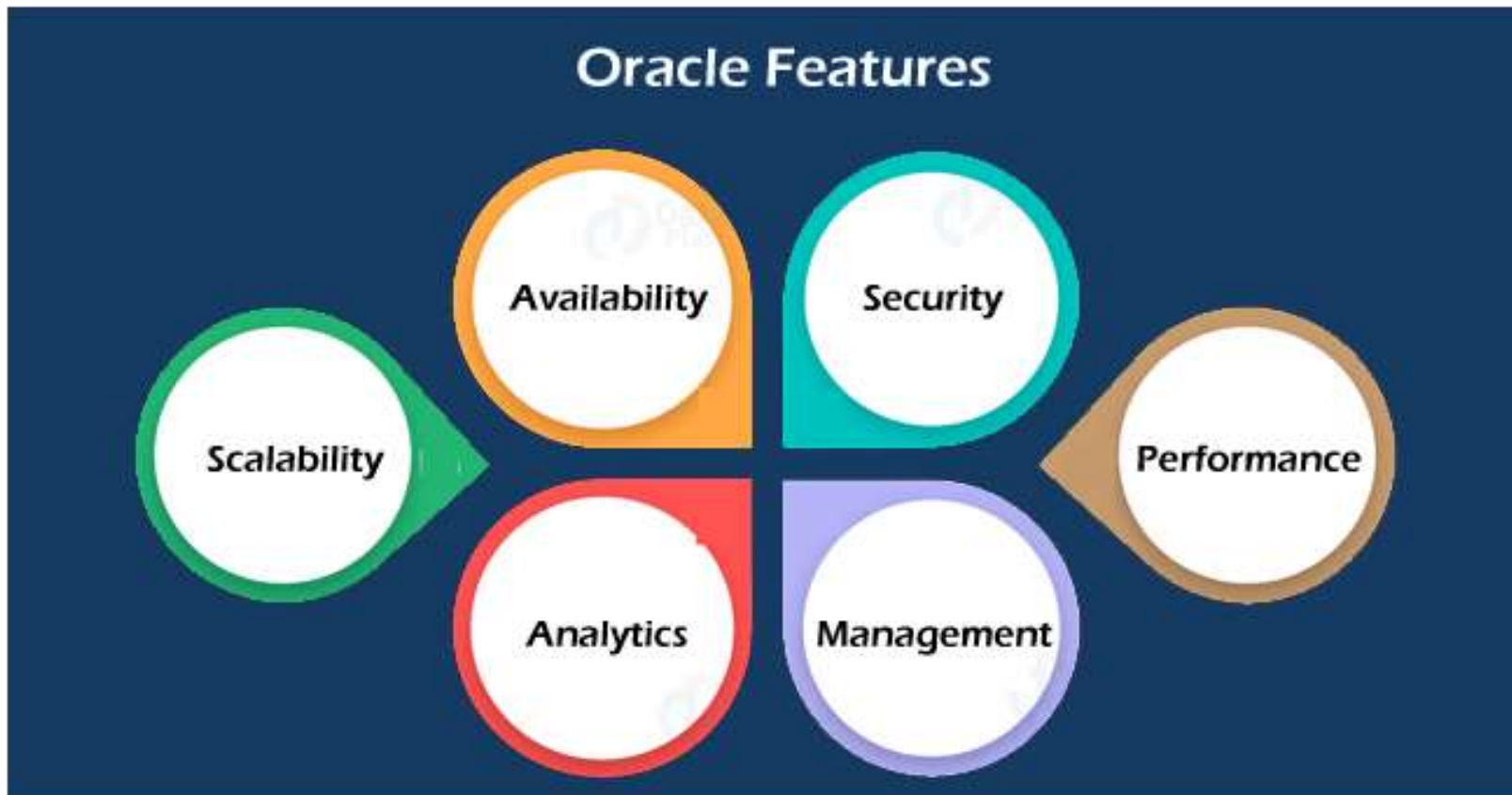
Data Warehousing

Materialized views

Bitmap indexes

Table compression

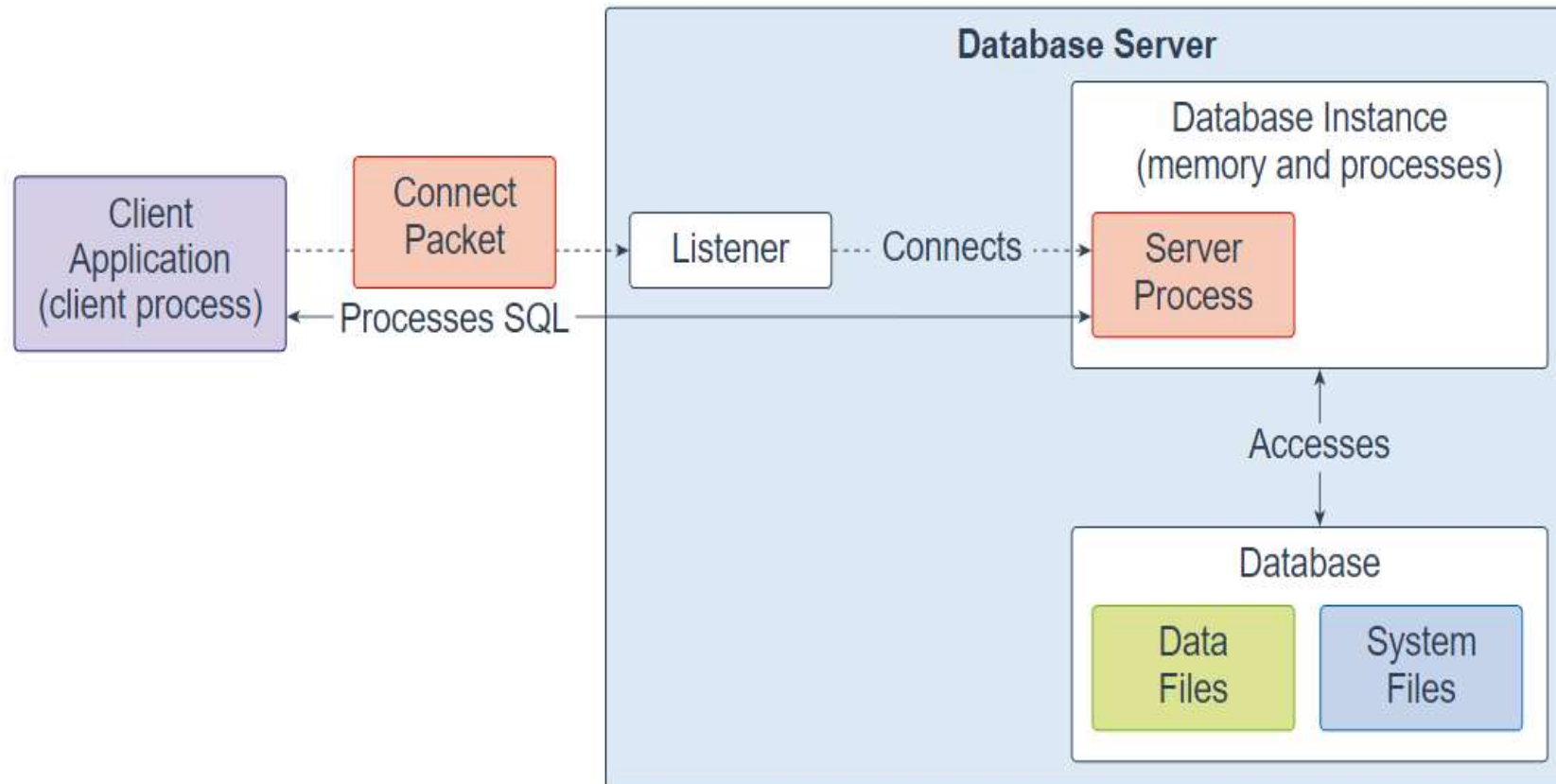Parallel Execution, Analytic SQL , Data mining and Partitioning

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

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THANK YOU