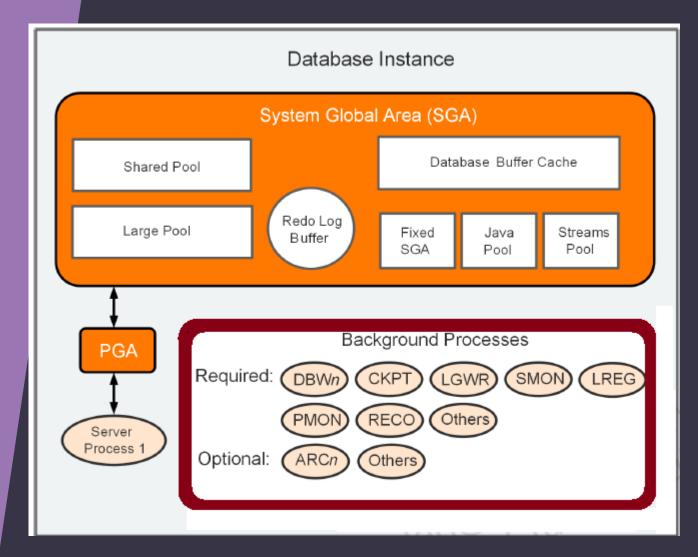
## **Database Instance**

**Background Processes** 

### What we will learn in this lecture?

- What are the Background processes?
- The Main purpose of each Background process

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#### **Background Processes:**

bunch of dedicated server-side processes running in the background

#### TASKS:

- writing database blocks to disk
- writing redo entries to disk
- making sure all of the database files on disk are synchronized
- perform maintenance tasks

- Database Writer processes (DBWn ) responsible for writing contents of the database buffers to data files on disk
- Log writer (LGWR)
   responsible for writing redo records from the redo log buffering memory into a physical disk
- checkpoint process (CKPT)
   This process handles database checkpoints.
   An Oracle checkpoint is a database event which synchronizes modified data blocks in memory from the buffer cache with the data files on disk
- System Monitor process (SMON) performs recovery during the startup sequence of the Oracle Instance if required. responsible for cleaning up any unused temporary segments.
- Process Monitor (PMON)
  performs process recovery when a user process or a session fails.
  responsible for cleaning up any changes made to blocks in the database buffer cache, and releasing resources that were previously used by a failed user session.

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Course

• Recover Process (RECO) used as part of distributed database transactions.

Distributed transactions are transactions that involve multiple databases, and should either commit a rollback on both databases at once.

- Listener registration process (LREG)
   It is responsible for registering the Oracle instance with the Oracle network listener.
   The listener accepting remote incoming user connections
- Archiver process (ARCn)

It is responsible to copy the Oracle redo log files to a <u>remote storage device</u> after a redo log switch has occurred

Note: Copying the database relogs to another storage system is very important from a backup and recovery perspective

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# Thank You

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