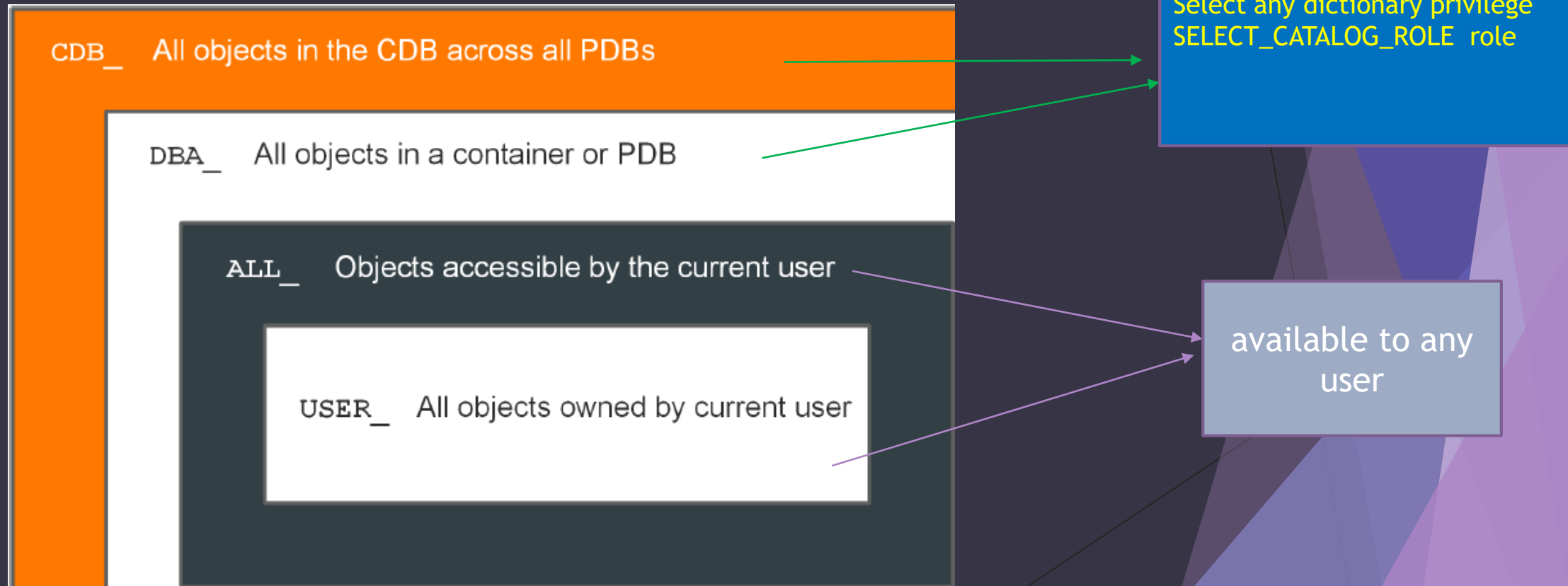# Oracle Data Dictionary

- Oracle data dictionary is the metadata about the database .
- The data dictionary is structured in tables and views.
- Is maintained by oracle database server .
- Is owned by SYS user.
- Should never modified direct using SQL .

CDB_   All objects in the CDB across all PDBs

DBA_   All objects in a container or PDB

ALL_   Objects accessible by the current user

USER_   All objects owned by current user

Restricted to DBA accounts
Users that have :.
Sysdba privilege
Select any dictionary privilege
SELECT_CATALOG_ROLE role

available to any user

Common users VS local users

- A CDB common user is a database account that is created in the root container and is inherited by all PDBs in the CDB, including future PDBs
- A common user can not have the same name as any local user across all the PDBs.
- Oracle supplied administrative accounts such SYS user and system user are common user.
- You can create common user , but you need user defined prefix C## , example C##KHALED
- The user defined prefix can be defined in parameter called common_user_prefix
- A Local user is DB user created in a specific PDB (example: HR user in PDB orclpdb)
- You can create same local account and password in more than one PDB
  example:
  HR user in PDB called pdb1
  HR user in PDB called pdb2
  HR user in PDB called pdb3

Dynamic Performance Views (v$ views)

- Are a set of underlying views that are maintained by the server and accessible to the database administrator user SYS.

- are called *dynamic performance views* because they are continuously updated while a database is open and in use.

- their contents relate primarily to performance.

- Dynamic performance views are identified by the prefix V_$.
  Public synonyms for these views have the prefix V$.

- The dynamic performance views are used by Enterprise Manager and Oracle Trace, which is the primary interface for accessing information about system performance

- Once the instance is started, the V$ views that read from memory are accessible.
  Views that read data from disk require that the database be mounted.