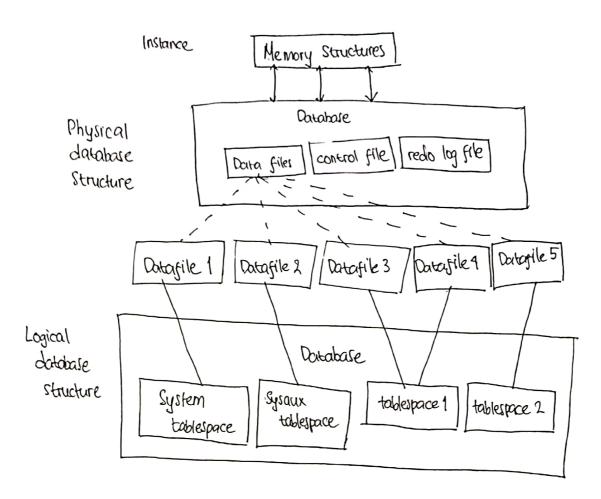
### Storage Structure



Dotablock -> smallest unit of disk space allocation

Datablock Site -> Multiplicity of operating system block site (2k, 4k, 8k, 16k, 22k)

Extent -> a specific number of contigous data blocks (default 5 block, min 2 blocks)

#### TABLESPACE

System -> Tablespace created automatically, used to manage obtabase. Contained in SYs schema (data dictionary, set of tables and views, administrative information)

SysAux -> Auxiliary tablespace to the system. Contain data for some components and products UNDOTBS1 -> stored undo information

users -> defaut tablespace for all new users

## ALLOCATE MORE SPACE FOR A DATABASE

- 1. Add a data file to tablespace
- 2. Add a new tablespace
- 3. Increase a data size of a data file

# Types of Toblespace

- · Locally maragad tablespace
  - -free extents are managed in the tablespace
  - each bit corresponds to a block or group of blocks
  - The bit value indicates free or used extents
  - The use of locally managed tablespace is recommended

# Temporary bablespace

- provides performance improvements
- All operation that we sort, jains, union, index build, ordering, computing aggregates benefit from temporary tablespace
- It is optionally and permanent in nature but their regments are temporary in nature.

## Dictionary

- · Information about tablespace and their component data files
- · Status of tablespace -> Chune, OFFLINE, READ-ONLY
- · Information about the files a tablespace included in data dictionary view DBA \_ DATA \_ FIE FILES.
- · File Status -> AVAILABLE OF INVALID
- · A data dictionary view DBA Stantint's contains information about the present fize of each segment -