

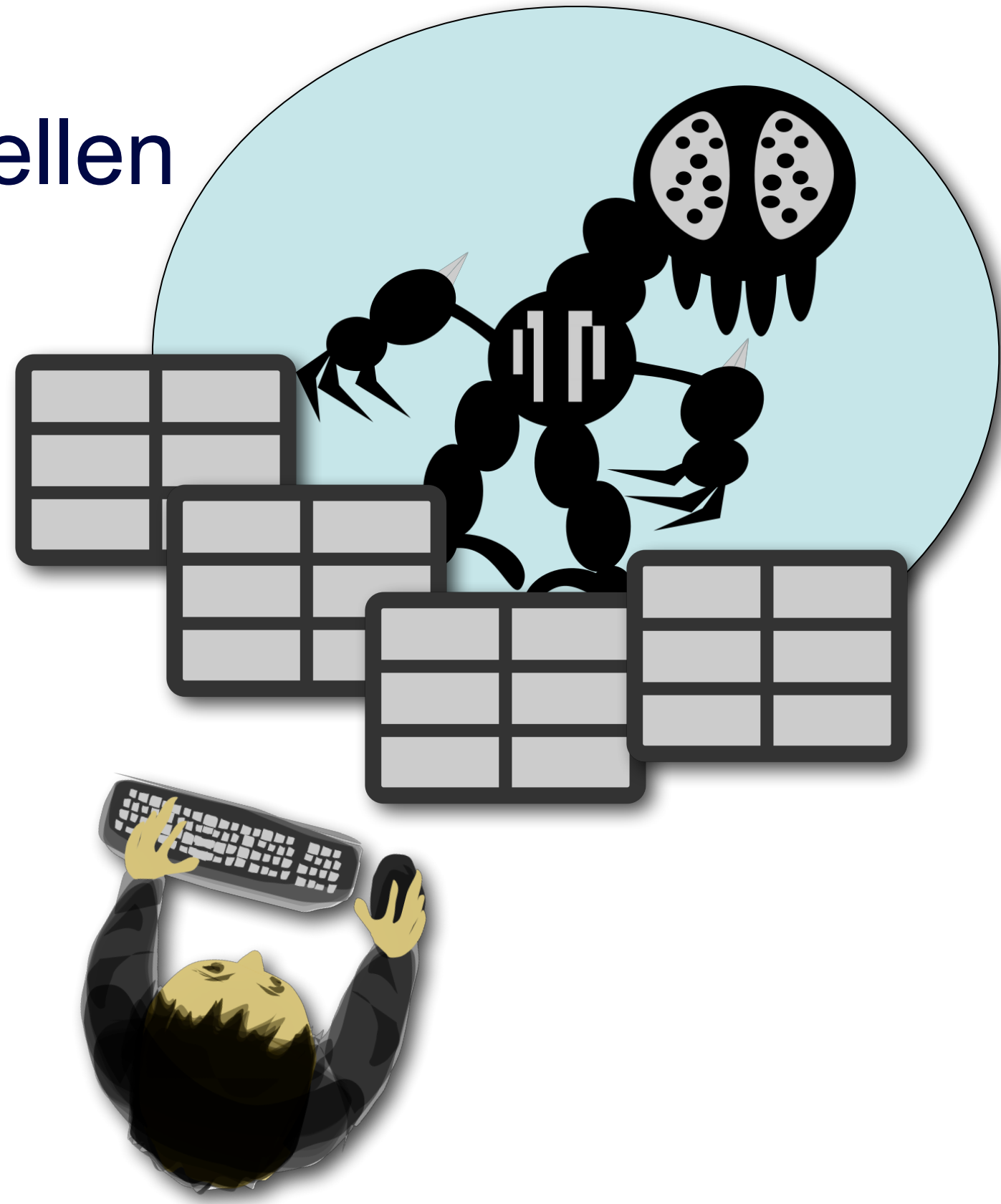
- Dieses Skript beinhaltet evtl. Fehler, die von mir gewollt sind.
- Vermutlich gibt es in diesem Skript auch Fehler, die nicht von mir gewollt waren.
- Manche Folien / Beispiele sind unvollständig. Dies ist Absicht.
- Die Lösungen zu den Beispielen werden in der Vorlesung besprochen.

## 2. Systemtabellen

Im **Systemkatalog** von Oracle stehen Metadaten (= Informationen über das Datenschema).

Der Systemkatalog ist durch Tabellen und Views zugreifbar

=> Konsistente Zugriffsmethode, kein Bruch



Es gibt zwei Klassen von **Systemtabellen**

- **Internal Tables**: haben kryptische Namen, die mit **x\$** beginnen. In diesen speichert Oracle **Basisinformationen** für die **Datenbankfunktionalität, Konfigurationsdaten** und **statistische Informationen**
- **Data Dictionary Tables**: enthalten Informationen über alle **Datenbankobjekte**, wie beispielsweise Benutzer, Tabellen, Views, Indizes, usw.

und zwei Klassen von **Views**

- **Dynamic Performance Views**: beinhalten **Laufzeitinformationen** über die aktuelle Datenbankinstanz. Die Namen dieser Views beginnen mit **v\$**
- **Data Dictionary Views** basieren auf den Internal Tables und Data Dictionary Tables und liefern Informationen über Benutzer und Tabellen, usw.

- Der **Eigentümer** dieser Views (und auch der anderen Systemtabellen) ist der User **sys**. Um als normaler Benutzer auf diese Views zugreifen zu können, muss man die **SELECT\_CATALOG\_ROLE** haben.
- Diese Views bieten Informationen über
  - laufende Datenbankinstanzen (V\$DATABASE)
  - aktive Sessions (V\$SESSION)
  - den aktuellen Lock-Status (V\$LOCK)
  - das Redo-Log File (V\$LOGFILE)
  - Datenbankparameter (V\$PARAMETER)
  - angefragte SQL-Statements (V\$SQL)
- Beispiele:
  - Informationen zur aktiven Datenbankinstanz: **SELECT \* FROM V\$DATABASE**
  - Benutzer der aktiven Sessions: **SELECT DISTINCT USERNAME FROM V\$SESSION**
  - Welche Log-Files werden verwendet? **SELECT \* FROM V\$LOGFILE**
  - Wie sehen die Parameter der Datenbank aus? **SELECT \* FROM V\$PARAMETER**

- Auch hier ist die `SELECT_CATALOG_ROLE` notwendig, um Anfragen stellen zu können
- Es gibt drei Arten von **Data Dictionary Views**:
  - **DBA\_views** (z.B. `DBA_TABLES`, `DBA_USERS`,...) zeigen die Informationen aller Objekte an (z.B. aller Tabellen in der Datenbank)
  - **ALL\_views** zeigen genau die gleichen Informationen aber nur über die Objekte, auf die der Benutzer der die Anfrage stellt zugreifen kann
  - **USER\_views** zeigen analog nur die Informationen über Objekte an, die dem Benutzer gehören
- Beispiele (angemeldet sei der Benutzer *ora\_benutzer*)
  - Informationen über alle in der Datenbank befindlichen Tabellen: **SELECT \* FROM sys.DBA\_TABLES**
  - Informationen über die Tabellen des aktuellen Users: **SELECT \* FROM sys.USER\_TABLES**
  - Die durch den User zugreifbaren Indizes (nicht Eigentümer):  

```
SELECT *  
FROM sys.ALL_INDICES  
WHERE owner != 'ORA_BENUTZER'
```
  - Auf welche Views darf der aktuelle Benutzer nicht zugreifen?

```
SELECT owner, view_name FROM sys.DBA_VIEWS  
WHERE (owner, view_name) NOT IN  
( SELECT owner, view_name FROM sys.ALL_VIEWS );
```

# Welche Rechte verbergen sich hinter der SELECT\_CATALOG\_ROLE?

```
select *  
from role_tab_privs  
where role='SELECT_CATALOG_ROLE';
```

# Wer hat die Rolle SELECT\_CATALOG\_ROLE?

```
select *  
from dba_role_privs  
where granted_role='SELECT_CATALOG_ROLE';
```



# Data Dictionary Views und Dynamic Performance Views

ALL_ALL_TABLES	ALL_MVIEWS	ALL_TAB_COL_STATISTICS	DBA_CLUSTERS
ALL_ARGUMENTS	ALL_MVIEW_AGGREGATES	ALL_TAB_COMMENTS	DBA_CLUSTER_HASH_EXPRESSIO
ALL_ASSOCIATIONS	ALL_MVIEW_ANALYSIS	ALL_TAB_HISTOGRAMS	ONS
ALL_CATALOG	ALL_MVIEW_DETAIL_RELATIONS	ALL_TAB_MODIFICATIONS	DBA_CLU_COLUMNS
ALL_CLUSTERS	ALL_MVIEW_JOINS	ALL_TAB_PARTITIONS	DBA_COLL_TYPES
ALL_CLUSTER_HASH_EXPRESSIO	ALL_MVIEW_KEYS	ALL_TAB_PRIVS	DBA_COL_COMMENTS
NS	ALL_NESTED_TABLES	ALL_TAB_PRIVS_MADE	DBA_COL_PRIVS
ALL_COLL_TYPES	ALL_OBJECTS	ALL_TAB_PRIVS_RECD	DBA_CONSTRAINTS
ALL_COL_COMMENTS	ALL_OBJECT_TABLES	ALL_TAB_SUBPARTITIONS	DBA_CONS_COLUMNS
ALL_COL_PRIVS	ALL_OPANCILLARY	ALL_TRIGGERS	DBA_CONTEXT
ALL_COL_PRIVS_MADE	ALL_OPARGUMENTS	ALL_TRIGGER_COLS	DBA_DATA_FILES
ALL_COL_PRIVS_RECD	ALL_OPBINDINGS	ALL_TYPES	DBA_DB_LINKS
ALL_CONSTRAINTS	ALL_OPERATORS	ALL_TYPE_ATTRS	DBA_DDL_LOCKS
ALL_CONS_COLUMNS	ALL_OUTLINES	ALL_TYPE_METHODS	DBA_DEPENDENCIES
ALL_CONTEXT	ALL_OUTLINE_HINTS	ALL_UNUSED_COL_TABS	DBA_DIMENSIONS
ALL_DB_LINKS	ALL_PARTIAL_DROP_TABS	ALL_UPDATABLE_COLUMNS	DBA_DIM_ATTRIBUTES
ALL_DEF_AUDIT_OPTS	ALL_PART_COL_STATISTICS	ALL_USERS	DBA_DIM_CHILD_OF
ALL_DEPENDENCIES	ALL_PART_HISTOGRAMS	ALL_USTATS	DBA_DIM_HIERARCHIES
ALL_DIMENSIONS	ALL_PART_INDEXES	ALL_VARRAYS	DBA_DIM_JOIN_KEY
ALL_DIM_ATTRIBUTES	ALL_PART_KEY_COLUMNS	ALL_VIEWS	DBA_DIM_LEVELS
ALL_DIM_CHILD_OF	ALL_PART_LOBS	AUDIT_ACTIONS	DBA_DIM_LEVEL_KEY
ALL_DIM_HIERARCHIES	ALL_PART_TABLES	CAT	DBA_DIRECTORIES
ALL_DIM_JOIN_KEY	ALL_POLICIES	CATALOG	DBA_DML_LOCKS
ALL_DIM_LEVELS	ALL_QUEUES	CHAINED_ROWS	DBA_ERRORS
ALL_DIM_LEVEL_KEY	ALL_QUEUE_TABLES	CLU	DBA_EXP_FILES
ALL_DIRECTORIES	ALL_REFRESH	CODE_PIECES	DBA_EXP_OBJECTS
ALL_ERRORS	ALL_REFRESH_CHILDREN	CODE_SIZE	DBA_EXP_VERSION
ALL_INDEXES	ALL_REFRESH_DEPENDENCIES	COL	DBA_EXTENTS
ALL_INDEXTYPES	ALL_REFS	COLS	DBA_FREE_SPACE
ALL_INDEXTYPE_OPERATORS	ALL_REGISTERED_SNAPSHOTS	COLUMN_PRIVILEGES	DBA_FREE_SPACE_COALESCED
ALL_IND_COLUMNS	ALL_SEQUENCES	DBA_2PC_NEIGHBORS	DBA_INDEXES
ALL_IND_EXPRESSIONS	ALL_SNAPSHOTS	DBA_2PC_PENDING	DBA_INDEXTYPES
ALL_IND_PARTITIONS	ALL_SNAPSHOT_LOGS	DBA_ALL_TABLES	DBA_INDEXTYPE_OPERATORS
ALL_IND_SUBPARTITIONS	ALL_SNAPSHOT_REFRESH_TIMES	DBA_ANALYZE_OBJECTS	DBA_IND_COLUMNS
ALL_INTERNAL_TRIGGERS	ALL_SOURCE	DBA_ASSOCIATIONS	DBA_IND_EXPRESSIONS
ALL_JOBS	ALL_SUBPART_COL_STATISTICS	DBA_AUDIT_EXISTS	DBA_IND_PARTITIONS
ALL_LIBRARIES	ALL_SUBPART_HISTOGRAMS	DBA_AUDIT_OBJECT	DBA_IND_SUBPARTITIONS
ALL_LOBS	ALL_SUBPART_KEY_COLUMNS	DBA_AUDIT_SESSION	DBA_INTERNAL_TRIGGERS
ALL_LOB_PARTITIONS	ALL_SUMDELTA	DBA_AUDIT_STATEMENT	DBA_JOBS
ALL_LOB_SUBPARTITIONS	ALL_SYNONYMS	DBA_AUDIT_TRAIL	DBA_JOBS_RUNNING
ALL_METHOD_PARAMS	ALL_TABLES	DBA_BLOCKERS	DBA_KGLLOCK
ALL_METHOD_RESULTS	ALL_TAB_COLUMNS	DBA_CATALOG	





DBA_LIBRARIES	DBA_REFRESH_CHILDREN	DBA_TRIGGERS	IDEPTREE
DBA_LOBS	DBA_REFS	DBA_TRIGGER_COLS	IND
DBA_LOB_PARTITIONS	DBA_REGISTERED_SNAPSHOTS	DBA_TS_QUOTAS	INDEX_HISTOGRAM
DBA_LOB_SUBPARTITIONS	DBA_REGISTERED_SNAPSHOT_GRO	DBA_TYPES	INDEX_STATS
DBA_LOCKS	UPS	DBA_TYPE_ATTRS	NLS_DATABASE_PARAMETERS
DBA_LOCK_INTERNAL	DBA_REPAIR_TABLE	DBA_TYPE_METHODS	NLS_INSTANCE_PARAMETERS
DBA_METHOD_PARAMS	DBA_RGROUP	DBA_UNUSED_COL_TABS	NLS_SESSION_PARAMETERS
DBA_METHOD_RESULTS	DBA_ROLES	DBA_UPDATABLE_COLUMNS	OBJ
DBA_MVIEWS	DBA_ROLE_PRIVS	DBA_USERS	PARSED_PIECES
DBA_MVIEW_AGGREGATES	DBA_ROLLBACK_SEGS	DBA_USTATS	PARSED_SIZE
DBA_MVIEW_ANALYSIS	DBA_RSRC_CONSUMER_GROUPS	DBA_VARRAYS	PLAN_TABLE
DBA_MVIEW_DETAIL_RELATIONS	DBA_RSRC_CONSUMER_GROUP_PR	DBA_VIEWS	PLUGGABLE_SET_CHECK
DBA_MVIEW_JOINS	IVS	DBA_WAITERS	PRODUCT_COMPONENT_VERSION
DBA_MVIEW_KEYS	DBA_RSRC_MANAGER_SYSTEM_PRI	DBMS_ALERT_INFO	PSTUBTBL
DBA_NESTED_TABLES	VS	DBMS_LOCK_ALLOCATED	PUBLICSYN
DBA_OBJECTS	DBA_RSRC_PLANS	DEPTREE	PUBLIC_DEPENDENCY
DBA_OBJECT_SIZE	DBA_RSRC_PLAN_DIRECTIVES	DICT	QUEUE_PRIVILEGES
DBA_OBJECT_TABLES	DBA_RULESETS	DICTIONARY	RC
DBA_OBJ_AUDIT_OPTS	DBA_SEGMENTS	DICT_COLUMNS	RESOURCE_COST
DBA_OPANCILLARY	DBA_SEQUENCES	ERROR_SIZE	RESOURCE_MAP
DBA_OPARGUMENTS	DBA_SNAPSHOTS	EXCEPTIONS	ROLE_ROLE_PRIVS
DBA_OPBINDINGS	DBA_SNAPSHOT_LOGS	FILEXT\$	ROLE_SYS_PRIVS
DBA_OPERATORS	DBA_SNAPSHOT_LOG_FILTER_COLS	FILE_LOCK	ROLE_TAB_PRIVS
DBA_ORPHAN_KEY_TABLE	DBA_SNAPSHOT_REFRESH_TIMES	FILE_PING	SEQ
DBA_OUTLINES	DBA_SOURCE	GLOBAL_NAME	SESSION_CONTEXT
DBA_OUTLINE_HINTS	DBA_STMT_AUDIT_OPTS	HS_ALL_CAPS	SESSION_PRIVS
DBA_PARTIAL_DROP_TABS	DBA_SUBPART_COL_STATISTICS	HS_ALL_DD	SESSION_ROLES
DBA_PART_COL_STATISTICS	DBA_SUBPART_HISTOGRAMS	HS_ALL_INITS	SOURCE_SIZE
DBA_PART_HISTOGRAMS	DBA_SUBPART_KEY_COLUMNS	HS_BASE_CAPS	STMT_AUDIT_OPTION_MAP
DBA_PART_INDEXES	DBA_SYNONYMS	HS_BASE_DD	SYN
DBA_PART_KEY_COLUMNS	DBA_SYS_PRIVS	HS_CLASS_CAPS	SYNONYMS
DBA_PART_LOBS	DBA_TABLES	HS_CLASS_DD	SYSCATALOG
DBA_PART_TABLES	DBA_TABLESPACES	HS_CLASS_INIT	SYSFILES
DBA_PENDING_TRANSACTIONS	DBA_TAB_COLUMNS	HS_EXTERNAL_OBJECTS	SYSSEGOBJ
DBA_POLICIES	DBA_TAB_COL_STATISTICS	HS_EXTERNAL_OBJECT_PRIVILEGE	SYSTEM_PRIVILEGE_MAP
DBA_PRIV_AUDIT_OPTS	DBA_TAB_COMMENTS	S	TAB
DBA_PROFILES	DBA_TAB_HISTOGRAMS	HS_EXTERNAL_USER_PRIVILEGES	TABLE_PRIVILEGES
DBA_QUEUES	DBA_TAB_MODIFICATIONS	HS_FDS_CLASS	TABLE_PRIVILEGE_MAP
DBA_QUEUE_SCHEDULES	DBA_TAB_PARTITIONS	HS_FDS_INST	TABQUOTAS
DBA_QUEUE_TABLES	DBA_TAB_PRIVS	HS_INST_CAPS	TABS
DBA_RCHILD	DBA_TAB_SUBPARTITIONS	HS_INST_DD	TRUSTED_SERVERS
DBA_REFRESH	DBA_TEMP_FILES	HS_INST_INIT	TS_PITR_CHECK





TS_PITR_OBJECTS_TO_BE_DROPPED	USER_METHOD_PARAMS	USER_SNAPSHOT_LOGS	V\$BACKUP_SET
UNI_PLUGGABLE_SET_CHECK	USER_METHOD_RESULTS	USER_SNAPSHOT_REFRESH_TIMES	V\$BACKUP_SYNC_IO
USER_ALL_TABLES	USER_MVIEWS	USER_SOURCE	V\$BGPROCESS
USER_ARGUMENTS	USER_MVIEW_AGGREGATES	USER_SUBPART_COL_STATISTICS	V\$BH
USER_ASSOCIATIONS	USER_MVIEW_ANALYSIS	USER_SUBPART_HISTOGRAMS	V\$BUFFER_POOL
USER_AUDIT_OBJECT	USER_MVIEW_DETAIL_RELATIONS	USER_SUBPART_KEY_COLUMNS	V\$BUFFER_POOL_STATISTICS
USER_AUDIT_SESSION	USER_MVIEW_JOINS	USER_SYNONYMS	V\$CACHE
USER_AUDIT_STATEMENT	USER_MVIEW_KEYS	USER_SYS_PRIVS	V\$CACHE_LOCK
USER_AUDIT_TRAIL	USER_NESTED_TABLES	USER_TABLES	V\$CIRCUIT
USER_CATALOG	USER_OBJECTS	USER_TABLESPACES	V\$CLASS_PING
USER_CLUSTERS	USER_OBJECT_SIZE	USER_TAB_COLUMNS	V\$COMPATIBILITY
USER_CLUSTER_HASH_EXPRESSIONS	USER_OBJECT_TABLES	USER_TAB_COL_STATISTICS	V\$COMPATSEG
USER_CLU_COLUMNS	USER_OBJ_AUDIT_OPTS	USER_TAB_COMMENTS	V\$CONTEXT
USER_COLL_TYPES	USER_OPANCILLARY	USER_TAB_HISTOGRAMS	V\$CONTROLFILE
USER_COL_COMMENTS	USER_OPARGUMENTS	USER_TAB_MODIFICATIONS	V\$CONTROLFILE_RECORD_SECTION
USER_COL_PRIVS	USER_OPBINDINGS	USER_TAB_PRIVS	V\$COPY_CORRUPTION
USER_COL_PRIVS_MADE	USER_OPERATORS	USER_TAB_PRIVS_MADE	V\$DATABASE
USER_COL_PRIVS_RECD	USER_OUTLINES	USER_TAB_PRIVS_RECD	V\$DATAFILE
USER_CONSTRAINTS	USER_OUTLINE_HINTS	USER_TAB_SUBPARTITIONS	V\$DATAFILE_COPY
USER_CONS_COLUMNS	USER_PARTIAL_DROP_TABS	USER_TRIGGERS	V\$DATAFILE_HEADER
USER_DB_LINKS	USER_PART_COL_STATISTICS	USER_TRIGGER_COLS	V\$DBFILE
USER_DEPENDENCIES	USER_PART_HISTOGRAMS	USER_TS_QUOTAS	V\$DBLINK
USER_DIMENSIONS	USER_PART_INDEXES	USER_TYPES	V\$DB_OBJECT_CACHE
USER_DIM_ATTRIBUTES	USER_PART_KEY_COLUMNS	USER_TYPE_ATTRS	V\$DB_PIPES
USER_DIM_CHILD_OF	USER_PART_LOBS	USER_TYPE_METHODS	V\$DELETED_OBJECT
USER_DIM_HIERARCHIES	USER_PART_TABLES	USER_UNUSED_COL_TABS	V\$DISPATCHER
USER_DIM_JOIN_KEY	USER_PASSWORD_LIMITS	USER_UPDATABLE_COLUMNS	V\$DISPATCHER_RATE
USER_DIM_LEVELS	USER_POLICIES	USER_USERS	V\$DLM_ALL_LOCKS
USER_DIM_LEVEL_KEY	USER_QUEUES	USER_USTATS	V\$DLM_CONVERT_LOCAL
USER_ERRORS	USER_QUEUE_SCHEDULES	USER_VARRAYS	V\$DLM_CONVERT_REMOTE
USER_EXTENTS	USER_QUEUE_TABLES	USER_VIEWS	V\$DLM_LATCH
USER_FREE_SPACE	USER_REFRESH	V\$ACCESS	V\$DLM_LOCKS
USER_INDEXES	USER_REFRESH_CHILDREN	V\$ACTIVE_INSTANCES	V\$DLM_MISC
USER_INDEXTYPES	USER_REFS	V\$AQ	
USER_INDEXTYPE_OPERATORS	USER_REGISTERED_SNAPSHOTS	V\$ARCHIVE	
USER_IND_COLUMNS	USER_RESOURCE_LIMITS	V\$ARCHIVED_LOG	
USER_IND_EXPRESSIONS	USER_ROLE_PRIVS	V\$ARCHIVE_DEST	
USER_IND_PARTITIONS	USER_RSRC_CONSUMER_GROUP_PRIVS	V\$ARCHIVE_PROCESSES	
USER_IND_SUBPARTITIONS	S	V\$BACKUP	
USER_INTERNAL_TRIGGERS	USER_RSRC_MANAGER_SYSTEM_PRIVS	V\$BACKUP_ASYNC_IO	
USER_JOBS	S	V\$BACKUP_CORRUPTION	
USER_LIBRARIES	USER_RULESETS	V\$BACKUP_DATAFILE	
USER_LOBS	USER_SEGMENTS	V\$BACKUP_DEVICE	
USER_LOB_PARTITIONS	USER_SEQUENCES	V\$BACKUP_PIECE	
USER_LOB_SUBPARTITIONS	USER_SNAPSHOTS	V\$BACKUP_REDOLOG	



V\$DLM_RESS	V\$LOGMNR_PARAMETERS	V\$RSRC_CONSUMER_GROUP	V\$TEMP_SPACE_HEADER
V\$ENABLEDPRIVS	V\$LOG_HISTORY	V\$RSRC_CONSUMER_GROUP_CPU_MTH	V\$THREAD
V\$ENQUEUE_LOCK	V\$MTS	MTH	V\$TIMER
V\$EVENT_NAME	V\$MYSTAT	V\$RSRC_PLAN	V\$TRANSACTION
V\$EXECUTION	V\$NLS_PARAMETERS	V\$RSRC_PLAN_CPU_MTH	V\$TRANSACTION_ENQUEUE
V\$FALSE_PING	V\$NLS_VALID_VALUES	V\$SESSION	V\$TYPE_SIZE
V\$FAST_START_SERVERS	V\$OBJECT_DEPENDENCY	V\$SESSION_CONNECT_INFO	V\$VERSION
V\$FAST_START_TRANSACTIONS	V\$OBsolete_PARAMETER	V\$SESSION_CURSOR_CACHE	V\$WAITSTAT
V\$FILESTAT	V\$OFFLINE_RANGE	V\$SESSION_EVENT	
V\$FILE_PING	V\$OPEN_CURSOR	V\$SESSION_LONGOPS	
V\$FIXED_TABLE	V\$OPTION	V\$SESSION_OBJECT_CACHE	
V\$FIXED_VIEW_DEFINITION	V\$PARALLEL_DEGREE_LIMIT_MTH	V\$SESSION_WAIT	
V\$GLOBAL_BLOCKED_LOCKS	V\$PARAMETER	V\$SESSTAT	
V\$GLOBAL_TRANSACTION	V\$PING	V\$SESS_IO	
V\$HS_AGENT	V\$PQ_SESSTAT	V\$SGA	
V\$HS_PARAMETER	V\$PQ_SLAVE	V\$SGASTAT	
V\$HS_SESSION	V\$PQ_SYSSTAT	V\$SHARED_POOL_RESERVED	
V\$INDEXED_FIXED_COLUMN	V\$PQ_TQSTAT	V\$SHARED_SERVER	
V\$INSTANCE	V\$PROCESS	V\$SORT_SEGMENT	
V\$INSTANCE_RECOVERY	V\$PROXY_ARCHIVEDLOG	V\$SORT_USAGE	
V\$LATCH	V\$PROXY_DATAFILE	V\$SQL	
V\$LATCHHOLDER	V\$PWFILe_USERS	V\$SQLAREA	
V\$LATCHNAME	V\$PX_PROCESS	V\$SQLTEXT	
V\$LATCH_CHILDREN	V\$PX_PROCESS_SYSSTAT	V\$SQLTEXT_WITH_NEWLINES	
V\$LATCH_MISSES	V\$PX_SESSION	V\$SQL_BIND_DATA	
V\$LATCH_PARENT	V\$PX_SESSTAT	V\$SQL_BIND_METADATA	
V\$LIBRARYCACHE	V\$QUEUE	V\$SQL_CURSOR	
V\$LICENSE	V\$RECOVERY_FILE_STATUS	V\$SQL_SHARED_MEMORY	
V\$LOADCSTAT	V\$RECOVERY_LOG	V\$STATNAME	
V\$LOADTSTAT	V\$RECOVERY_PROGRESS	V\$SUBCACHE	
V\$LOCK	V\$RECOVERY_STATUS	V\$SYSSTAT	
V\$LOCKED_OBJECT	V\$RECOVER_FILE	V\$SYSTEM_CURSOR_CACHE	
V\$LOCKS_WITH_COLLISIONS	V\$REQDIST	V\$SYSTEM_EVENT	
V\$LOCK_ACTIVITY	V\$RESERVED_WORDS	V\$SYSTEM_PARAMETER	
V\$LOCK_ELEMENT	V\$RESOURCE	V\$TABLESPACE	
V\$LOG	V\$RESOURCE_LIMIT	V\$TEMPFILE	
V\$LOGFILE	V\$ROLLNAME	V\$TEMPORARY_LOBS	
V\$LOGHIST	V\$ROLLSTAT	V\$TEMPSTAT	
V\$LOGMNR_CONTENTS	V\$ROWCACHE	V\$TEMP_EXTENT_MAP	
V\$LOGMNR_DICTIONARY	V\$ROWCACHE_PARENT	V\$TEMP_EXTENT_POOL	
V\$LOGMNR_LOGS	V\$ROWCACHE_SUBORDINATE	V\$TEMP_PING	