LAB 3

Structura dictionarului de date	desc dictionary; select table_name from dictionary where table_name like ‘USER%’;
Toate tabelele din userul curent	desc user_tables; select table_name from user_tables;
Vizualizarea obiectelor create de un user	desc user_objects; select object_name from user_objects;
Adaugarea unei constrangeri pe o tabela	alter table dept add constraint deptno_pk primary key(deptno); alter table emp add constraint emp_fk foreign key(deptno) references dept(deptno); select object_name from user_objects;
Vizualizare toate constrangerile aferente userului curent	desc user_constraints; select owner,constraint_name,constraint_type,table_name from user_constraints;
Vizualizare structura tabelara	desc user_tab_columns; select table_name,column_name,data_type from user_tab_columns where table_name=’EMP’;
Toate obiectele create de alti useri la care are acces userul curent	select table_name from dictionary where table_name like’ALL%’;
Vizualizare obiecte pentru toti userii	desc all_objects; select owner,object_name,object_type from all_objects where owner=’SCOTT’;
Vizualizare toate obiectele bazei de date	select table_name from dictionary where table_name like ‘DBA%’;
Vizualizare informatii despre userii create pe baza de date	desc dba_users; select username,password from dba_users;
Vizualizare informatii despre tablespace-uri create pe baza de	desc dba_tablespaces; select tablespace_name,block_size,max_extents,status from dba_tablespaces;

date	
Vizualizare informatii despre indecsi	desc dba_indexes; select owner,index_name,index_type,table_name from dba_indexes;

LAB 4

Informatii despre fisierele de control	desc v$controlfile;
Informatii despre fisierele de control extrase din view-ul pentru parametrii	desc v$parameter; select * from v$parameter where name='control_files';
Informatii despre marimea inregistrarii, numarul total de inregistrari allocate si cele folosite referitoare la parametrii de control	desc v$controlfile_record_section; select * from v$controlfile_record_section;
Vizualizare fisiere de control	show parameter control_files;
Informatii despre fisierele de date	desc v$datafile; select * from v$datafile;
Informatii despre fisierele temporare	desc v$tempfile; select * from v$tempfile;
Informatii despre tablespace-uri	desc v$tablespace; select * from v$tablespace;
Informatii despre baza de date	desc v$database; select * from v$database;
Informatii despre fisierele de log	desc V$LOGFILE; Select * from V$LOGFILE;

LAB 5

Informatii despre fisierele de log si starea lor	desc v$logfile; select * from v$logfile;
Informatii despre modul de lucru al bazei de date(cu arhivare sau fara arhivare a fis de log, data cand au fost resetate fis de log, etc)	desc v$database; select name,log_mode,resetlogs_time from v$database;

Informatii legate de starea instantei si a grupurilor	desc v$thread; select groups,sequence#,instance, status from v$thread;
Informatii despre grupuri si membrii	desc v$log; select group#,members,bytes,archived,status from v$log;
Adaugarea unui membru la un grup(adaugarea unui nou fis de log)	alter database add logfile member 'e:\temp\log2.rdo' to group 1;
Stergerea unui membru din grup(stergerea unui fis de log valid) Se verif starea fis care av fi sters Se sterge fis de log(numai daca e valid)	select * from v$logfile; alter database drop logfile member 'c:\temp\LOG2.RDO';
Informatii legate de modul de lucru al instantei(modul arhiva sau nonarhiva)	desc v$instance; select instance_name,database_status,archiver from v$instance;

LAB 6

Crearea unui tablespace permanent 'UBD' cu un fisier de date UBD1 cu dimensiunea de 1 M, cu sau fara extensie: cu specificarea tipului si dimensiunea extensiei fara specificarea extensiei (implicit AUTOALLOCATE)	create tablespace userdata datafile 'E;/Student/userdata01.dbf' size 1M extent management local uniform size 128K; create tablespace ubd datafile 'E:/Student/ubd1.dbf' size 1M;
Extinderea spatiului alocat unui tablespace extinderea spatiului cu	alter database datafile 'E:/Student/ubd1.dbf' autoextend on next 2M;

autoextensie extinderea spatiului cu marime fixa	alter database datafile 'E:/Studentubd1.dbf' resize 2M;
Adaugarea unui nou fis de date la un tablespace	alter tablespace bd_data add datafile 'E:/Student/ubd1.dbf' size 1M;
Informatii despre tablespace-uri(la nivel de baza de date)	desc dba_tablespaces; select tablespace_name,block_size,status from dba_tablespaces;
Starea unui tablespace(existent sau sters din baza de date)	desc v$tablespace; select * from v$tablespace;
Informatii despre tablespace-uri si fis de date aferente(la nivelul bazei de date)	desc dba_data_files; select tablespace_name,file_name,status from dba_data_files;
Informatii despre fisierele de date(la nivel de baza de date)	desc v$datafile; select file#,name,creation_time,status,enabled from v$datafile;
Informatii despre fis de date temporare la nivel de baza de date	desc dba_temp_files; select file_name,tablespace_name,status from dba_temp_files;
Informatii despre fis temporare la nivel de user	desc v$tempfile; select file#,name,creation_time,status from v$tempfile;
Informatii despre parametrii bazei de date	desc database_properties; select * from database_properties;
Stergerea din dictionar a unui tablespace	drop tablespace userdata including contents and datafiles;

Informatii despre starea unui tablespace si parametrii specifici blocurilor de date	desc dba_tablespaces; select tablespace_name,block_size,initial_extent,min_extents,status from dba_tablespaces where tablespace_name='BD_DATA';
Informatii despre segmentele de tip tabela create intr-un tablespace	select owner,segment_name,segment_type,tablespace_name,blocks,extents from dba_segments where owner='SCOTT' and segment_type='TABLE';
Informatii despre dimensiunea extensiilor allocate unui segment	desc dba_extents; select owner,segment_name,segment_type,tablespace_name,bytes,blocks from dba_extents where owner='SCOTT' and segment_name='EMP';
Informatii despre extensiile libere dintr-un tablespace	desc dba_free_space; select tablespace_name,count(*),max(blocks),sum(blocks) from dba_free_space group by tablespace_name;
Unificarea spatiilor contigue dintr-un tablespace	desc dba_free_space_coalesced; select tablespace_name,total_extents,percent_extents_coalesced from dba_free_space_coalesced;

LAB 8

Crearea unui tablespace de undo	create undo tablespace bd_undo datafile 'e:\student\undo_db01.dbf' size 2M;
Crearea unui segment de undo in tablespace-ul de undo	create rollback segment ubd_undo tablespace bd_undo storage(initial 100k next 100k optimal 4M minextents 20 maxextents 100);
Informatii din dictionar privind segmentele de undo	desc dba_rollback_segs; select segment_name,tablespace_name,owner,status from dba_rollback_segs;
Segmentele de undo folosite de instant curenta	desc v$rollname; select * from v$rollname;
Statistici despre segmental de undo	desc v$rollstat; select usn,rssize,extents,status from v$rollstat;
Info despre useri si sesiuni	desc v$session; select username,sid,saddr from v$session;
Info despre tranzactii(adresele tranzactiilor pot fi join-ate cu sesiunile prin ses_addr)	desc v$transaction; insert into emp values(999,'TEST','TRANZACT',1111,sysdate,100,0,10); select addr,xidusn,used_ublk,start_uext,start_ubafil from v$transaction;
Info despre blocurile de undo folosite de tranzactia curenta	select s.username,t.xidusn,t.ubafil,t.ubablk,t.used_ublk from v$session s,v$transaction t where s.saddr=t.ses_addr;
Statistici despre dimensiunea spatiului de undo	desc v$undostat; SELECT to_char(begin_time, 'dd-mm-yyyy hh:mi:ss') start_time, to_char(end_time,'dd- mm-yyyy hh:mi:ss') end_time, ((end_time-begin_time)* 24)*60 minute,

	undoblks FROM v$undostat; SELECT (SUM(undoblks) / SUM ((end_time - begin_time) * 24*60*60)) nr_med_blocuri_undo_sec FROM v$undostat;
Stergerea din dictionar a unui segment de undo	drop rollback segment ubd;
Informatii despre segmentele temporare de sortare (folosite in comenzile SQL de sortare)	desc v$sort_segment; select tablespace_name,max_sort_size,extent_size,max_sort_blocks from v$sort_segment;
Informatii despre sesiuni si tablespace-ul in care se afla segmentele temporare de sortare folosite in sesiunea curenta	desc v$sort_usage; select username,user,tablespace,contents,extents,blocks from v$sort_usage;
Setarea zonei de memorie utilizata pentru sortare in sesiunea curenta la 10K.	alter system set sort_area_size=10240 deferred;

LAB 9

Vizualizarea ID-rilor pentru fiecare linie din tabela.	CREATE TABLE emp_test as select * from scott.emp; SELECT rowid, empno, ename FROM emp_test;
Alocarea unei extensii la o tabela	ALTER TABLE scott.emp_test ALLOCATE EXTENT(SIZE 500K DATAFILE 'e:/DISK3/DATA01.DBF');
Stergerea unei coloane dintr-o tabela	ALTER TABLE scott.emp_test DROP COLUMN comm CASCADE CONSTRAINTS CHECKPOINT 1000;
Redenumirea unei coloane dintr-o tablela	ALTER TABLE scott.emp_test RENAME COLUMN sal TO salary;
Dezactivarea unei coloane dintr-o tabela	ALTER TABLE scott.emp_test SET UNUSED COLUMN comm CASCADE CONSTRAINTS;
Stergerea din dictionar a coloanelor dezactivate dintr-o tabela	ALTER TABLE scott.emp_test DROP UNUSED COLUMNS CHECKPOINT 1000;

Informatii despre coloane numarul coloanelor dezactivate	desc dba_unused_col_tabs; SELECT * FROM dba_unused_col_tabs;
Informatii despre tabelele din baza de date	desc dba_tables; SELECT owner, tablespace_name,table_name FROM dba_tables WHERE owner = 'SCOTT';
Informatii despre obiectele din baza de date	desc dba_objects; SELECT object_name, created FROM DBA_OBJECTS WHERE object_name like 'EMP%' AND owner = 'SCOTT';

LAB 10

Crearea unui index de tip B-Tree	CREATE INDEX scott.emp_name_idx ON scott.emp(ename) PCTFREE 30 STORAGE(INITIAL 200K NEXT 200K PCTINCREASE 0 MAXEXTENTS 50) TABLESPACE bd_data;
Crearea unui index de tip BITMAP	CREATE BITMAP INDEX scott.dept_name_idx ON scott.dept(dname) PCTFREE 30 STORAGE(INITIAL 200K NEXT 200K PCTINCREASE 0 MAXEXTENTS 50) TABLESPACE

	bd_data;
Modificarea parametrilor unui index	ALTER INDEX scott.emp_name_idx STORAGE(NEXT 400K MAXEXTENTS 100);
Alocarea unei extensii pentru un index de tip B-Tree	ALTER INDEX emp_name_idx ALLOCATE EXTENT (SIZE 200K DATAFILE 'e:/DISK6/indx01.dbf');
Eliberarea spatiului nealocat pentru un index de tip B-Tree	ALTER INDEX emp_name_idx DEALLOCATE UNUSED;
Mutarea unui index in alt tablespace	ALTER INDEX emp_name_idx REBUILD TABLESPACE SYSTEM;
Defragmentarea blocurilor unui index	ALTER INDEX emp_name_idx COALESCE;
Informatii din dictionar despre indecsi	desc dba_indexes; SELECT index_name, index_type, table_name, status from dba_indexes where owner='SCOTT' ;
Informatii din dictionar despre coloanele	desc dba_ind_columns; select index_name,table_owner,table_name,column_name

indecsilor	from dba_ind_columns where index_owner='SCOTT';
Startarea si stoparea monitorizarii unui index	ALTER INDEX emp_name_idx MONITORING USAGE; ALTER INDEX emp_name_idx NOMONITORING USAGE;
Informatii din dictionar despre indecsii monitorizati	desc v$object_usage; select * from v$object_usage;
Startarea analizei structurii unui index (se populeaza view-ul INDEX_STATS cu informatii despre index)	ANALYZE INDEX emp_name_idx VALIDATE STRUCTURE;
Informatii din dictionar despre starea indecsilor	desc index_stats; SELECT name, blocks, used_space, pct_used, distinct_keys,lf_rows, del_lf_rows FROM index_stats ;
Stergerea unui index din dictionar	DROP INDEX emp_name_idx ;