LAB 3

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| --- | --- |
| 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 date | desc dba\_tablespaces;  select tablespace\_name,block\_size,max\_extents,status from dba\_tablespaces; |
| 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

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| --- | --- |
| 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 autoextensie  extinderea spatiului cu marime fixa | alter database datafile ‘E:/Student/ubd1.dbf’ autoextend on next 2M;  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; |

LAB 7

|  |  |
| --- | --- |
| 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 indecsilor | desc dba\_ind\_columns;  select index\_name,table\_owner,table\_name,column\_name 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 ; |