Администрирование Oracle: Practice #2

Работа с БД

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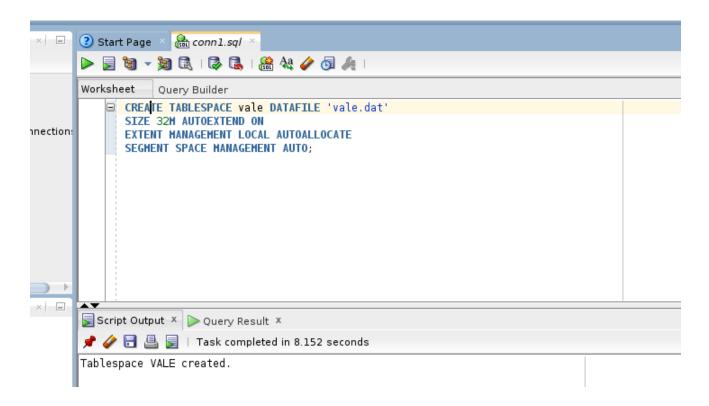
Созданная с помощью DBCA БД:

SID: klem

Размер блока данных: 8192

Пользовательское табличное пространство vale:

Type: Auto Sizing: Auto



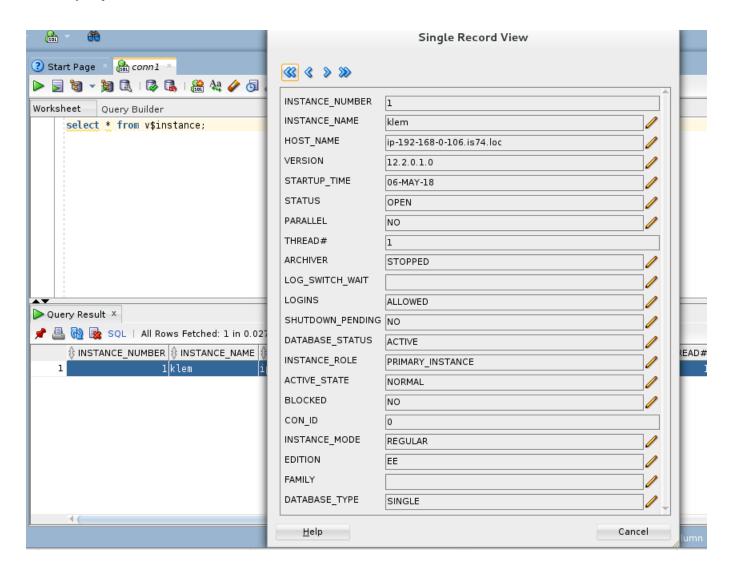
Task 2, 3

Скрипты создания БД - scripts.rar

В версии Oracle Database 12с при создании БД с помощью DBCA конфигурация БД сохраняется как response file, поэтому вместо klem.html, отправлен файл ${\bf klem.rsp}$

Query: SELECT * FROM v\$instance;

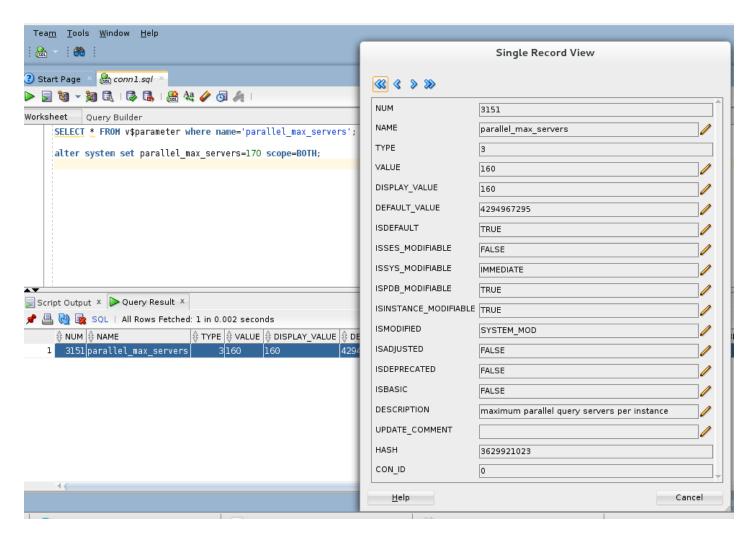
Query result:



Task 5

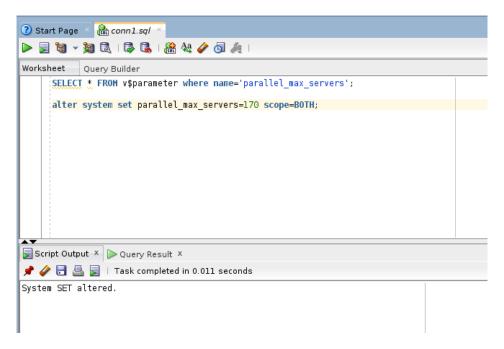
Созданный SPFILE для экземпляра - spfileklem.ora

Query: SELECT * FROM v\$parameter WHERE name="parallel_max_servers"; Query result:

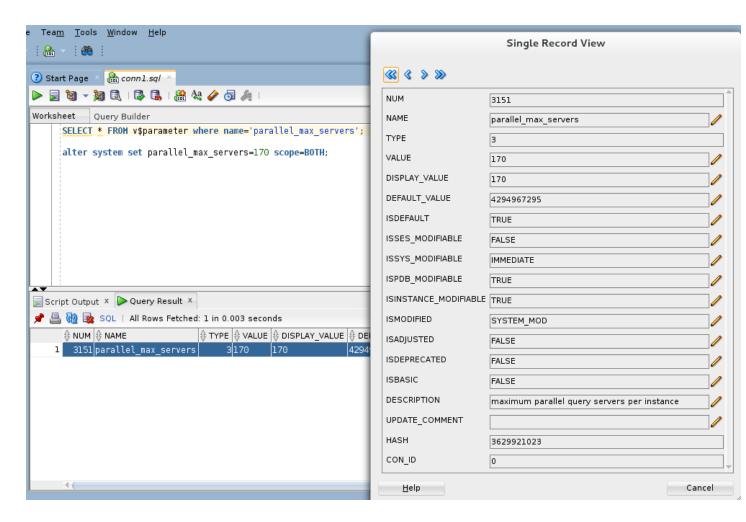


 $\label{eq:Query: ALTER system SET parallel_max_servers=170 scope=BOTH;} \\$

Query result:



Query: SELECT * FROM v\$parameter WHERE name="parallel_max_servers"; Query result:



Перевод БД в режим READ ONLY: Query: ALTER database open read only; Перевод БД в режим RESTRICT:

Query: ALTER system ENABLE RESTRICTED SESSION;

```
SQL> startup mount;
ORACLE instance started.
Total System Global Area 1946157056 bytes
Fixed Size
                            8622192 bytes
Variable Size
                         1224740752 bytes
Database Buffers
                          704643072 bytes
Redo Buffers
                            8151040 bytes
Database mounted.
SQL> alter database open read only;
Database altered.
SQL> select open mode from v$database;
OPEN MODE
READ ONLY
SQL> ALTER SYSTEM ENABLE RESTRICTED SESSION;
System altered.
```

Проверка:

```
SQL> conn hr@klem;
Enter password:
ERROR:
ORA-12526: TNS:listener: all appropriate instances are in restricted mode
```

Выход из режима RESTRICT и проверка:

Query: ALTER system DISABLE RESTRICTED SESSION;

```
ORACLE instance shut down.
SQL> startup
ORACLE instance started.
Total System Global Area 1459617792 bytes
ixed Size
                          8792872 bytes
Variable Size
                        503317720 bytes
Database Buffers 939524096 bytes
Redo Buffers
                         7983104 bytes
Database mounted.
Database opened.
SQL> SQL> SQL>
SQL> ALTER SYSTEM DISABLE RESTRICTED SESSION
System altered.
SQL> quit
Disconnected from Oracle Database 12c Enterprise Edition Release 12.2.0.1.0 - 64bit Production
[oracle@ip-192-168-0-106 bin]$ ./sqlplus hr/hr as sysdba
SQL*Plus: Release 12.2.0.1.0 Production on Mon May 14 08:31:01 2018
Copyright (c) 1982, 2016, Oracle. All rights reserved.
Connected to:
Oracle Database 12c Enterprise Edition Release 12.2.0.1.0 - 64bit Production
```

7c i-ii:

```
QL> show user;
JSER is "SYS"
SQL> create table test sh (dummy varchar(10));
Table created.
SQL> insert into test sh values ('junk');
row created.
SQL> shutdown immediate;
DRA-01097: cannot shutdown while in a transaction - commit or rollback first
SQL> shutdown abort;
DRACLE instance shut down.
SQL> startuo mount;
SP2-0734: unknown command beginning "startuo mo..." - rest of line ignored.
SQL> startup mount;
DRACLE instance started.
Total System Global Area 1459617792 bytes
                           8792872 bytes
Variable Size
                         503317720 bytes
Database Buffers
                         939524096 bytes
Redo Buffers
                           7983104 bytes
Database mounted.
SQL> recover database;
Media recovery complete.
```

Task 8

Перевод БД в состояние SUSPEND: Query: ALTER system SUSPEND;

Проверка текущего статуса:

Query: SELECT database_status FROM v\$instance;

Возобновление работы:

Query: ALTER system RESUME;

```
SQL> ALTER system SUSPEND;

System altered.

SQL> SELECT database_status FROM v$instance;

DATABASE_STATUS

SUSPENDED

SQL> ALTER system RESUME;

System altered.

SQL> SELECT database_status FROM v$instance;

DATABASE_STATUS

ACTIVE
```

```
Query: ALTER system SET optimizer_mode=rule scope=spfile;
SELECT value FROM v$parameter WHERE name="optimizer_mode"
UNION ALL
SELECT value FROM v$spparameter WHERE name="optimizer_mode";
Query result:
```

```
SQL> ALTER system SET optimizer_mode=rule scope=spfile;

System altered.

SQL> SELECT value FROM v$parameter WHERE name='optimizer_mode' UNION ALL SELECT value FROM v$spparameter'

VALUE

ALL_ROWS

RULE

SQL>
```

v\$sparameter отображает те значения, которые были определены в spfile вне зависимости от того, применяются они в сеансе или нет. А v\$parameter отображает только те значения, которые применимы к сессии. v\$parameter не имеет ничего общего с spfile, который он использовал для запуска; он просто показывает, какие значения действуют для сеанса.

Task 10, 12

Создание пользователя - владельца приложения:

Query: CREATE PROFILE app_owner LIMIT SESSIONS_PER_USER UNLIMITED CONNECT_TIME UNLIMITED IDLE TIME UNLIMITED;

Query: CREATE USER app_owner_user IDENTIFIED BY qwerty; Query: ALTER USER app_owner_user PROFILE app_owner; Query: GRANT select_catalog_role TO app_owner_user; Query result:

```
SQL> CREATE PROFILE app_owner LIMIT SESSIONS_PER_USER UNLIMITED CONNECT_TIME UNLIMITED IDLE_TIME UNLIMITED;

Profile created.

SQL> ALTER USER app_owner_user PROFILE app_owner;

User altered.

SQL> GRANT select_catalog_role TO app_owner_user;

Grant succeeded.

SQL> CREATE PROFILE limited LIMIT SESSIONS_PER_USER 2 IDLE_TIME 15;

Profile created.

SQL> CREATE USER limited_user IDENTIFIED BY qwerty;

User created.

SQL> ALTER USER limited_user QUOTA 50M ON users PROFILE limited;

User altered.

SQL> REVOKE select_catalog_role TO limited_user;

REVOKE select_catalog_role TO limited_user
```

Создание ограниченного пользователя:

Query: CREATE PROFILE limited LIMIT SESSIONS PER USER 2 IDLE TIME 15;

Query: CREATE USER limited user IDENTIFIED BY qwerty;

Query: ALTER USER limited user QUOTA 50M ON users PROFILE limited;

Query: REVOKE select_catalog_role TO limited_user;

Query result:

```
Profile created.

SQL> CREATE USER limited_user IDENTIFIED BY qwerty;
User created.

SQL> ALTER USER limited_user QUOTA 50M ON users PROFILE limited;
User altered.

SQL> REVOKE select_catalog_role TO limited_user;
REVOKE select_catalog_role TO limited_user

*

ERROR at line 1:
ORA-00990: missing or invalid privilege

SQL> REVOKE select catalog role TO limited_user;
*

ERROR at line 1:
ORA-00990: missing or invalid privilege

SQL> REVOKE select_catalog_role FROM limited_user;
REVOKE select_catalog_role FROM limited_user;
REVOKE select_catalog_role FROM limited_user;
*

ERROR at line 1:
ORA-01951: ROLE 'SELECT_CATALOG_ROLE' not granted to 'LIMITED_USER'
```

Query: SELECT username, profile, account_status FROM dba_users WHERE username='app_owner_user'; Query result:

```
APP_OWNER_USER
OPEN
APP_OWNER
```

Query: SELECT username, profile, account_status FROM dba_users WHERE username='limited_user'; Query result:



Task 13

Query: ALTER PROFILE default LIMIT SESSIONS_PER_USER 2 IDLE_TIME 15; Query result:

```
SQL>
SQL> ALTER PROFILE default LIMIT SESSIONS_PER_USER 2 IDLE_TIME 15;
Profile altered.
```

${\bf Query:} {\bf SELECT * FROM dba_profiles WHERE profile="DEFAULT";}$ ${\bf Query \; result:}$

```
PROFILE

RESOURCE_NAME RESOURCE

LIMIT

COM INH IMP

DEFAULT
SESSIONS_PER_USER KERNEL
2
NO NO NO
```

```
PROFILE

RESOURCE_NAME RESOURCE

LIMIT

COM INH IMP

DEFAULT
IDLE_TIME KERNEL

15
NO NO NO
```