

Laboratorium nr 1

Część 1A

2.

```
SQL> select name from V$DATAFILE;

NAME
-----
C:\USERS\PAWEL\ORACL\ORADATA\ORCL\DATAFILE\01_MF_SYSTEM_J5Z82HKW_.DBF
C:\USERS\PAWEL\ORACL\ORADATA\ORCL\DATAFILE\01_MF_SYSAUX_J5Z84733_.DBF
C:\USERS\PAWEL\ORACL\ORADATA\ORCL\DATAFILE\01_MF_UNDOTBS1_J5Z850LN_.DBF
C:\USERS\PAWEL\ORACL\ORADATA\ORCL\DATAFILE\01_MF_USERS_J5Z851RW_.DBF

SQL> select name from V$CONTROLFILE;

NAME
-----
C:\USERS\PAWEL\ORACL\ORADATA\ORCL\CONTROLFILE\01_MF_J5Z8DYZ1_.CTL
C:\USERS\PAWEL\ORACL\FAST_RECOVERY_AREA\ORCL\CONTROLFILE\01_MF_J5Z8DZ5K_.CTL

SQL> SELECT MEMBER FROM V$LOGFILE;

MEMBER
-----
C:\USERS\PAWEL\ORACL\ORADATA\ORCL\ONLINELOG\01_MF_3_J5Z8F4KT_.LOG
C:\USERS\PAWEL\ORACL\FAST_RECOVERY_AREA\ORCL\ONLINELOG\01_MF_3_J5Z8FGQQ_.LOG
C:\USERS\PAWEL\ORACL\ORADATA\ORCL\ONLINELOG\01_MF_2_J5Z8F48R_.LOG
C:\USERS\PAWEL\ORACL\FAST_RECOVERY_AREA\ORCL\ONLINELOG\01_MF_2_J5Z8FGM9_.LOG
C:\USERS\PAWEL\ORACL\ORADATA\ORCL\ONLINELOG\01_MF_1_J5Z8F48J_.LOG
C:\USERS\PAWEL\ORACL\FAST_RECOVERY_AREA\ORCL\ONLINELOG\01_MF_1_J5Z8FGMN_.LOG

6 rows selected.

SQL> SELECT NAME FROM V$TEMPFILE;

NAME
-----
C:\USERS\PAWEL\ORACL\ORADATA\ORCL\DATAFILE\01_MF_TEMP_J5Z8GCFP_.TMP

SQL> CREATE PFILE='C:\orac1_szafranski\init.ora' from spfile;

File created.

SQL> CREATE SPFILE from pfile='C:\orac1_szafranski\init.ora';
CREATE SPFILE from pfile='C:\orac1_szafranski\init.ora'
*
ERROR at line 1:
ORA-32002: cannot create SPFILE already being used by the instance
```

Nie zmieniono SPFILE, ponieważ jest już używany przez instancję.

```
SQL> shutdown
Database closed.
Database dismounted.
ORACLE instance shut down.
```

4.

```
SQL> startup mount pfile='C:\orac1_szafranski\INITORCL.ORA'
ORACLE instance started.

Total System Global Area 3858759256 bytes
Fixed Size                  9035352 bytes
Variable Size              738197504 bytes
Database Buffers          3103784960 bytes
Redo Buffers                7741440 bytes
Database mounted.
```

5.

```
SQL> ALTER DATABASE RENAME FILE 'C:\Users\pawel\ORACL\oradata\ORCL\DATAFILE\01_MF_SYSAUX_J5Z84733_.DBF'
TO 'C:\orac1_szafranski\ORCL\01_MF_SYSAUX_J5Z84733_.DBF';

Database altered.

SQL> ALTER DATABASE RENAME FILE 'C:\Users\pawel\ORACL\oradata\ORCL\DATAFILE\01_MF_SYSTEM_J5Z82HKW_.DBF'
TO 'C:\orac1_szafranski\ORCL\01_MF_SYSTEM_J5Z82HKW_.DBF';

Database altered.

SQL> ALTER DATABASE RENAME FILE 'C:\Users\pawel\ORACL\oradata\ORCL\DATAFILE\01_MF_TEMP_J5Z8GCFP_.TMP'
TO 'C:\orac1_szafranski\ORCL\01_MF_TEMP_J5Z8GCFP_.TMP';

Database altered.

SQL> ALTER DATABASE RENAME FILE 'C:\Users\pawel\ORACL\oradata\ORCL\DATAFILE\01_MF_UNDOTBS1_J5Z850LN_.DBF'
TO 'C:\orac1_szafranski\ORCL\01_MF_UNDOTBS1_J5Z850LN_.DBF';

Database altered.

SQL> ALTER DATABASE RENAME FILE 'C:\Users\pawel\ORACL\oradata\ORCL\DATAFILE\01_MF_USERS_J5Z851RW_.DBF'
TO 'C:\orac1_szafranski\ORCL\01_MF_USERS_J5Z851RW_.DBF';

Database altered.

SQL> ALTER DATABASE RENAME FILE 'C:\Users\pawel\ORACL\oradata\ORCL\ONLINELOG\01_MF_1_J5Z8F48J_.LOG' TO
'C:\orac1_szafranski\ORCL\01_MF_1_J5Z8F48J_.LOG';

Database altered.

SQL> ALTER DATABASE RENAME FILE 'C:\Users\pawel\ORACL\oradata\ORCL\ONLINELOG\01_MF_2_J5Z8F48R_.LOG' TO
'C:\orac1_szafranski\ORCL\01_MF_2_J5Z8F48R_.LOG';

Database altered.

SQL> ALTER DATABASE RENAME FILE 'C:\Users\pawel\ORACL\oradata\ORCL\ONLINELOG\01_MF_3_J5Z8F4KT_.LOG' TO
'C:\orac1_szafranski\ORCL\01_MF_3_J5Z8F4KT_.LOG';

Database altered.

SQL>
SQL> ALTER DATABASE RENAME FILE 'C:\Users\pawel\ORACL\fast_recovery_area\ORCL\ONLINELOG\01_MF_1_J5Z8FG
MN_.LOG' TO 'C:\orac1_szafranski\ORCL\01_MF_1_J5Z8FGMN_.LOG';

Database altered.

SQL> ALTER DATABASE RENAME FILE 'C:\Users\pawel\ORACL\fast_recovery_area\ORCL\ONLINELOG\01_MF_2_J5Z8FG
M9_.LOG' TO 'C:\orac1_szafranski\ORCL\01_MF_2_J5Z8FGM9_.LOG';

Database altered.

SQL> ALTER DATABASE RENAME FILE 'C:\Users\pawel\ORACL\fast_recovery_area\ORCL\ONLINELOG\01_MF_3_J5Z8FG
QQ_.LOG' TO 'C:\orac1_szafranski\ORCL\01_MF_3_J5Z8FGQQ_.LOG';

Database altered.
```

6.

```
SQL> select name from V$DATAFILE;

NAME
-----
C:\ORACL_SZAFRANSKI\ORCL\01_MF_SYSTEM_J5Z82HKW_.DBF
C:\ORACL_SZAFRANSKI\ORCL\01_MF_SYSAUX_J5Z84733_.DBF
C:\ORACL_SZAFRANSKI\ORCL\01_MF_UNDOTBS1_J5Z850LN_.DBF
C:\ORACL_SZAFRANSKI\ORCL\01_MF_USERS_J5Z851RW_.DBF

SQL> select name from V$CONTROLFILE;

NAME
-----
C:\ORACL_SZAFRANSKI\ORCL\01_MF_J5Z8DYZ1_.CTL
C:\ORACL_SZAFRANSKI\ORCL\01_MF_J5Z8DZ5K_.CTL

SQL> SELECT MEMBER FROM V$LOGFILE;

MEMBER
-----
C:\ORACL_SZAFRANSKI\ORCL\01_MF_3_J5Z8F4KT_.LOG
C:\ORACL_SZAFRANSKI\ORCL\01_MF_3_J5Z8FGQQ_.LOG
C:\ORACL_SZAFRANSKI\ORCL\01_MF_2_J5Z8F48R_.LOG
C:\ORACL_SZAFRANSKI\ORCL\01_MF_2_J5Z8FGM9_.LOG
C:\ORACL_SZAFRANSKI\ORCL\01_MF_1_J5Z8F48J_.LOG
C:\ORACL_SZAFRANSKI\ORCL\01_MF_1_J5Z8FGMN_.LOG

6 rows selected.

SQL> SELECT NAME FROM V$TEMPFILE;

NAME
-----
C:\ORACL_SZAFRANSKI\ORCL\01_MF_TEMP_J5Z8GCFP_.TMP
```

7.

```
SQL> alter database open;

Database altered.
```

Część 1B

1.

```
SQL> startup pfile='C:\orac1_szafranski\INIT.ORA' nomount
ORACLE instance started.
```

```
Total System Global Area 3858759256 bytes
Fixed Size                  9035352 bytes
Variable Size               738197504 bytes
Database Buffers           3103784960 bytes
Redo Buffers                7741440 bytes
```

```
SQL> CREATE DATABASE
  2 LOGFILE
  3 GROUP 1 ('C:\orac1_szafranski\ORCL\redo01.log') SIZE 60M,
  4 GROUP 2 ('C:\orac1_szafranski\ORCL\redo02.log') SIZE 60M
  5 DATAFILE 'C:\orac1_szafranski\ORCL\system01.dbf' SIZE 450M AUTOEXTEND ON NEXT 50M
  6 SYSAUX DATAFILE 'C:\orac1_szafranski\ORCL\sysaux.dbf' SIZE 300M AUTOEXTEND ON NEXT 50M
  7 DEFAULT TEMPORARY TABLESPACE TEMPTS1 TEMPFILE 'C:\orac1_szafranski\ORCL\temp01.dbf' SIZE 50M
  8 UNDO TABLESPACE UNDOTBS DATAFILE 'C:\orac1_szafranski\ORCL\undotbs01.dbf' SIZE 50M
  9 CHARACTER SET EE8ISO8859P2;
```

Database created.

Komendy wykonywane z użytkownika SYS:

```
SQL> @?/rdbms/admin/catalog.sql|
```

```
SQL>
SQL>
SQL>
SQL> Rem *****
SQL> Rem END catalog.sql
SQL> Rem *****
```

```
SQL> @?/rdbms/admin/catproc.sql|
```

```
SQL>
SQL>
SQL>
SQL> Rem *****
SQL> Rem END catproc.sql
SQL> Rem *****
```

Komendy wykonywane z użytkownika SYSTEM:

```
SQL> ALTER USER SYSTEM IDENTIFIED BY manager;

User altered.

SQL> connect system
Enter password:
Connected.
SQL> @?/rdbms/admin/catdbsyn.sql
SQL> rem
SQL> rem $Header: rdbms/admin/catdbsyn.sql /main/5 2017/05/28 22:46:01 stanaya Exp $
SQL> rem
SQL> Rem Copyright (c) 1991 by Oracle Corporation
SQL> Rem NAME
SQL> Rem catdbsyn.sql - catalog dba synonyms
SQL> Rem DESCRIPTION
SQL> Rem Creates private synonyms for DBA-only dictionary views.
SQL> Rem RETURNS
```

```
SQL> @?/sqlplus/admin/pupbld.sql
SQL> --
SQL> -- Copyright (c) 1988, 2017, Oracle and/or its affiliates. All rights reserved.
SQL> --
SQL> -- NAME
SQL> -- pupbld.sql
SQL> --
SQL> -- DESCRIPTION
SQL> -- Script to install the SQL*Plus PRODUCT_USER_PROFILE tables. These
SQL> -- tables allow SQL*Plus to disable commands per user. The tables
SQL> -- are used only by SQL*Plus and do not affect other client tools
SQL> -- that access the database. Refer to the SQL*Plus manual for table
SQL> -- usage information.
```

```
SQL> @?/sqlplus/admin/help/hlpbld.sql helpus
SQL> --
SQL> -- Copyright (c) 1998, 2013, Oracle and/or its affiliates.
SQL> -- All rights reserved.
SQL> --
SQL> -- NAME
SQL> -- hlpbld.sql
SQL> --
SQL> -- DESCRIPTION
SQL> -- Builds the SQL*Plus HELP table and loads the HELP data from a
SQL> -- data file. The data file must exist before this script is run.
```

2. Odpowiedź na pytanie z p.2

Z naszej perspektywy nie stanie się nic, ponieważ skrypty catalog.sql i catproc.sql są napisane w taki sposób, aby można było je wielokrotnie wykonać, np. jeśli po pewnym czasie obiekty (np. perspektywy, synonimy) zostaną uszkodzone, to ponowne ich wykonanie naprawi te obiekty (utworzy je na nowo).

3. Lista plików dziennika i kontrolnych po zmianach z p.3 i 4.

```
SQL> SELECT MEMBER FROM V$LOGFILE;
```

```
MEMBER
```

```
-----  
C:\ORACL_SZAFRANSKI\ORCL\REDO01.LOG
```

```
C:\ORACL_SZAFRANSKI\ORCL\REDO02.LOG
```

```
C:\ORACL_SZAFRANSKI\ORCL\REDO01B.LOG
```

```
C:\ORACL_SZAFRANSKI\ORCL\REDO02B.LOG
```

```
4 rows selected.
```

```
SQL> select name from V$CONTROLFILE;
```

```
NAME
```

```
-----  
C:\ORACL_SZAFRANSKI\ORCL\01_MF_J5MMV00K_.CTL
```

```
C:\ORACL_SZAFRANSKI\ORCL_BACKUP\01_MF_J5MMV06T_.CTL
```

```
2 rows selected.
```

4. Wyniki testów z p. 7.

a) SQL> show parameter db_block_size;

```
db_block_size          integer  8192
```

b) SQL> show sga;

```
Total System Global Area 3858759256 bytes
```

```
Fixed Size               9035352 bytes
```

```
Variable Size            738197504 bytes
```

```
Database Buffers        3103784960 bytes
```

```
Redo Buffers             7741440 bytes
```

c) SQL> select COUNT(*) from DBA_TABLES;

```
1742
```

d) SQL> select name, log_mode from v\$database;

```
NAME  LOG_MODE
```

ORCL NOARCHIVELOG

e) Numer wersji serwera, z którą pracuje baza.

19.03.0.0.0

f) SQL> show parameter processes;

NAME	TYPE	VALUE
------	------	-------

processes	integer	320
-----------	---------	-----

g) Próba zmiany rozmiaru bloku bazy kończy się niepowodzeniem, gdyż wybrany parametr nie może być zmieniony już po utworzeniu bazy danych.

h) SQL> select COUNT(*) from all_objects where status = 'INVALID'

113

Część 1C

3.

```
SQL> select * from V$SGA;
```

NAME	VALUE	CON_ID
Fixed Size	9035352	0
Variable Size	738197504	0
Database Buffers	3103784960	0
Redo Buffers	7741440	0

```
select * from V$PARAMETER;
```

Zapytanie zwraca zbyt dużo danych, aby je wkleić.

```
SQL> show sga;
```

Total System Global Area	3858759256	bytes
Fixed Size	9035352	bytes
Variable Size	738197504	bytes
Database Buffers	3103784960	bytes
Redo Buffers	7741440	bytes

```
SQL> show parameter max_pdb;
```

NAME	TYPE	VALUE
max_pdb	integer	254

4.

```
SQL> select username from dba_users;
select username from dba_users
                        *
ERROR at line 1:
ORA-01219: database or pluggable database not open: queries allowed on fixed
tables or views only
```

Nie mogę obejrzeć DBA_USERS, ponieważ baza jest nieotwarta (jedynie mounted).

5.

```
SQL> select username from dba_users;
```

```
USERNAME
```

```
-----  
SYS  
SYSTEM  
GSMCATUSER  
XS$NULL  
REMOTE_SCHEDULER_AGENT  
SYSBACKUP  
SYSRAC  
AUDSYS  
DIP  
SYSKM  
OUTLN
```

```
USERNAME
```

```
-----  
ORACLE_OCM  
SYS$UMF  
SYSDG  
GSMUSER  
DBSNMP  
APPQOSSYS  
DBSFUSER  
GGSYS  
ANONYMOUS  
GSMADMIN_INTERNAL  
XDB
```

```
22 rows selected.
```

```
SQL> select * from DBA_FREE_SPACE;
```

TABLESPACE_NAME	FILE_ID	BLOCK_ID	BYTES	BLOCKS
SYSTEM	1	39752	146219008	17849
SYSAUX	2	25960	101908480	12440
UNDOTBS1	3	680	65536	8

TABLESPACE_NAME	FILE_ID	BLOCK_ID	BYTES	BLOCKS
UNDOTBS1	3	736	65536	8
UNDOTBS1	3	928	65536	8
UNDOTBS1	3	992	65536	8

TABLESPACE_NAME	FILE_ID	BLOCK_ID	BYTES	BLOCKS
UNDOTBS1	3	1304	65536	8
UNDOTBS1	3	1368	65536	8
UNDOTBS1	3	1776	65536	8

TABLESPACE_NAME	FILE_ID	BLOCK_ID	BYTES	BLOCKS
UNDOTBS1	3	2464	65536	8

```
10 rows selected.
```

6.

```
SQL> SHUTDOWN IMMEDIATE
Database closed.
Database dismounted.
ORACLE instance shut down.
```

7.

```
SQL> startup pfile='C:\orac1_szafranski\init2.ora'
ORACLE instance started.

Total System Global Area 3858759256 bytes
Fixed Size                  9035352 bytes
Variable Size              738197504 bytes
Database Buffers          3103784960 bytes
Redo Buffers                7741440 bytes
ORA-01103: database name 'ORCL' in control file is not 'ORCL2'
```

8.

```
SQL> startup pfile='C:\orac1_szafranski\init.ora' restrict open
ORACLE instance started.

Total System Global Area 3858759256 bytes
Fixed Size                  9035352 bytes
Variable Size              738197504 bytes
Database Buffers          3103784960 bytes
Redo Buffers                7741440 bytes
Database mounted.
Database opened.
```

9.

```
SQL> CREATE USER SCOTT IDENTIFIED BY TIGER;

User created.

SQL> GRANT CREATE SESSION TO SCOTT;

Grant succeeded.
```

10.

```
SQL> connect SCOTT/TIGER
ERROR:
ORA-01035: ORACLE only available to users with RESTRICTED SESSION privilege

Warning: You are no longer connected to ORACLE.
```

11.

```
SQL> connect /as sysdba
Connected.
SQL> ALTER SYSTEM DISABLE RESTRICTED SESSION;

System altered.

SQL> connect SCOTT/TIGER
Connected.
```

12.

```
SQL> connect /as sysdba
Connected.
SQL> shutdown
Database closed.
Database dismounted.
ORACLE instance shut down.
```