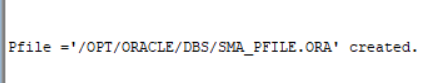
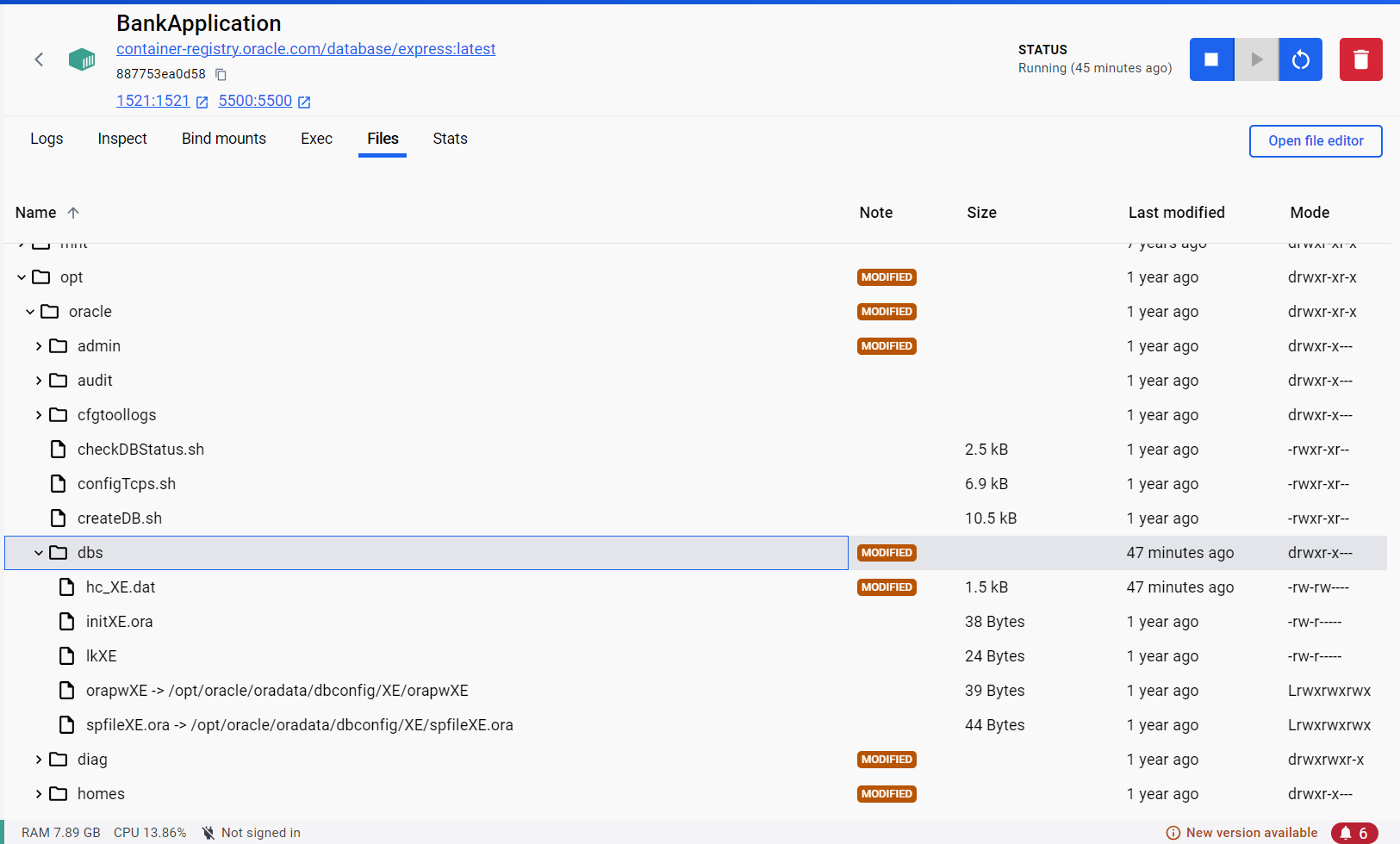
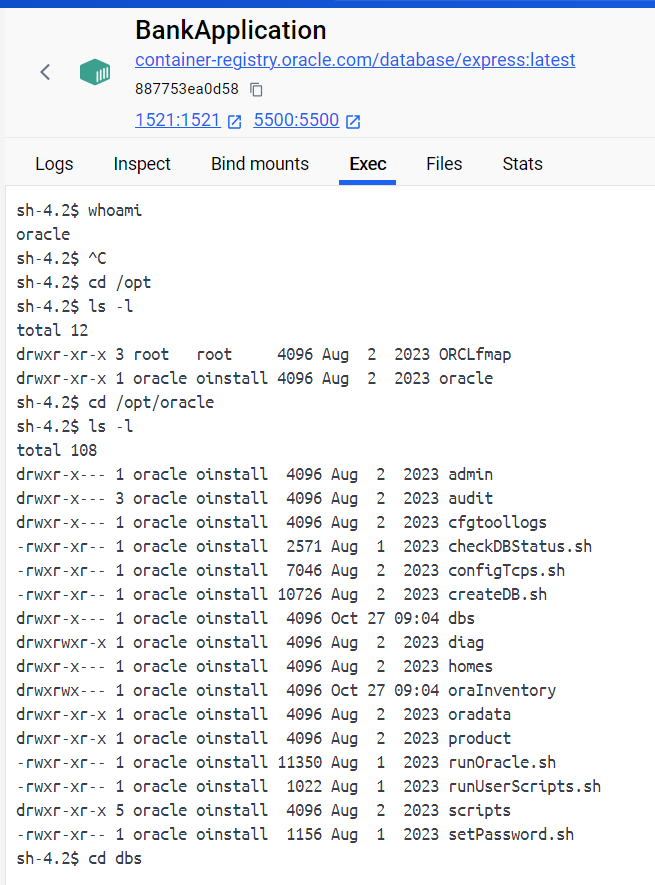


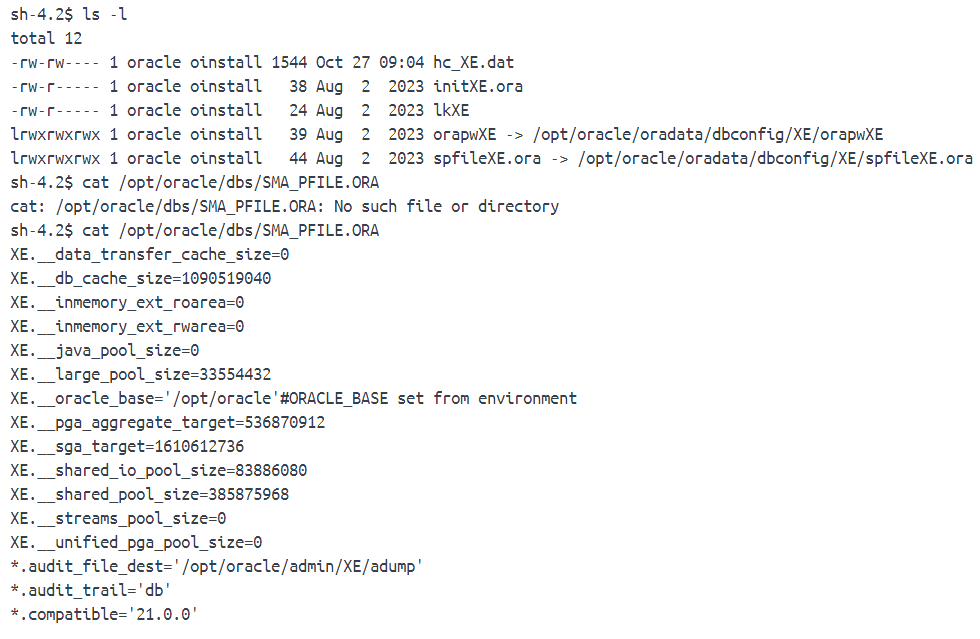
22. Сформируйте PFILE с именем XXX\_PFILE.ORA. Исследуйте его содержимое. Поясните известные вам параметры в файле.

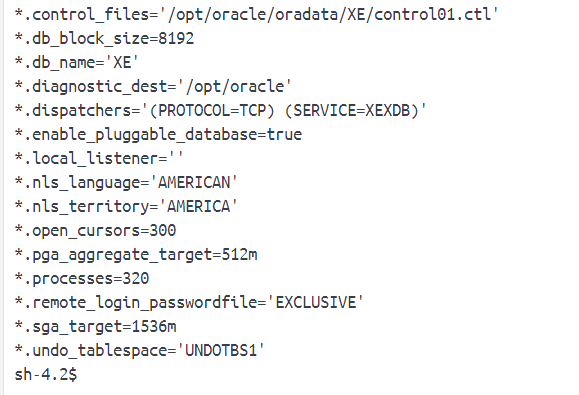












Содержимое файла spfileXE:

XE.\_\_data\_transfer\_cache\_size=0 // размер кэша для передачи данных (0 если не используется)

XE.\_\_db\_cache\_size=1090519040 // размер кэша данных в байтах, используемого для хранения данных в памяти

XE.\_\_inmemory\_ext\_roarea=0 // размер области для хранения данных в памяти (0 если не используется)

XE.\_\_inmemory\_ext\_rwarea=0 // размер области для записи данных в памяти (0 если не используется)

XE.\_\_java\_pool\_size=0 // размер пула памяти для Java (0 если не используется)

XE.\_\_large\_pool\_size=33554432 // размер большого пула памяти, используемого для таких операций, как параллелизм

XE.\_\_oracle\_base='/opt/oracle'#ORACLE\_BASE set from environment // базовый каталог оракл, устанавливаемый из окружения; комментарий, указывающий, что значение установлено из окружения

XE.\_\_pga\_aggregate\_target=536870912 // общий размер памяти для обработки запросов (в байтах)

XE.\_\_sga\_target=1610612736 // общий размер области общей памяти (SGA) в байтах

XE.\_\_shared\_io\_pool\_size=83886080 // размер пула для совместного ввода-вывода

XE.\_\_shared\_pool\_size=385875968 // размер общего пула памяти для хранения парсированных SQL и PL/SQL

XE.\_\_streams\_pool\_size=0 // размер пула для обработки потоков (обычно 0, если не используется)

XE.\_\_unified\_pga\_pool\_size=0 // размер унифицированного пула PGA (обычно 0, если не используется)

\*.audit\_file\_dest='/opt/oracle/admin/XE/adump' // директория для хранения файлов аудита

\*.audit\_trail='db' // указывает, что ведется аудит на уровне базы данных

\*.compatible='21.0.0' // версия совместимости базы данных

\*.control\_files='/opt/oracle/oradata/XE/control01.ctl' // путь к файлам управления базы данных

\*.db\_block\_size=8192 // размер блока базы данных в байтах

\*.db\_name='XE' // имя базы данных

\*.diagnostic\_dest='/opt/oracle' // директория для хранения диагностических файлов

\*.dispatchers='(PROTOCOL=TCP) (SERVICE=XEXDB)' // настройки диспетчеров для обработки подключений

\*.enable\_pluggable\_database=true // указывает, что поддерживаются подключаемые базы данных

\*.local\_listener='' // локальный слушатель для обработки подключений (пусто, если не используется)

\*.nls\_language='AMERICAN' // язык для обработки данных

\*.nls\_territory='AMERICA' // территория для определения формата данных, таких как дата и время

\*.open\_cursors=300 // максимальное количество открытых курсоров для пользователей

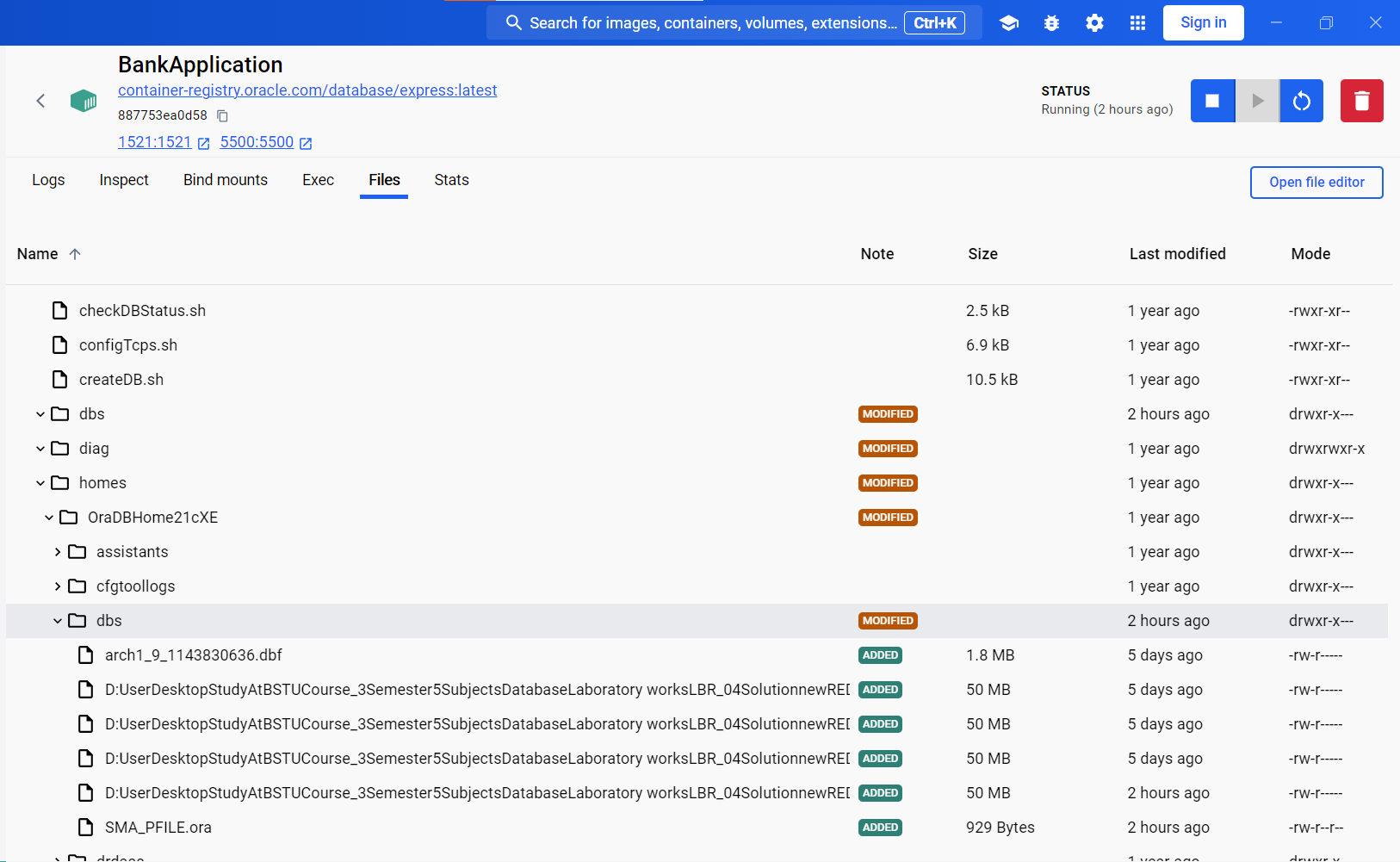
\*.pga\_aggregate\_target=512m // целевое значение для общего объема памяти для работы с запросами (в мегабайтах)

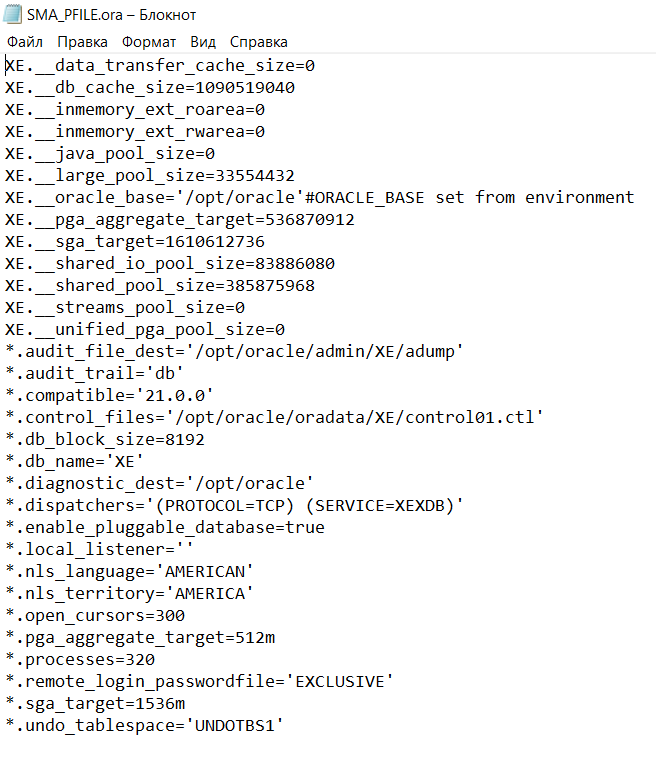
\*.processes=320 //максимальное количество процессов, которые могут подключаться к базе данных

\*.remote\_login\_passwordfile='EXCLUSIVE' // указывает, что файл паролей для удаленного входа является эксклюзивным

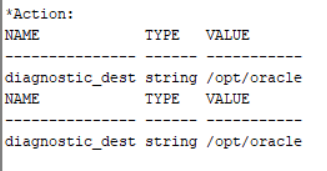
\*.sga\_target=1536m // целевое значение для общего объема памяти SGA (в мегабайтах)

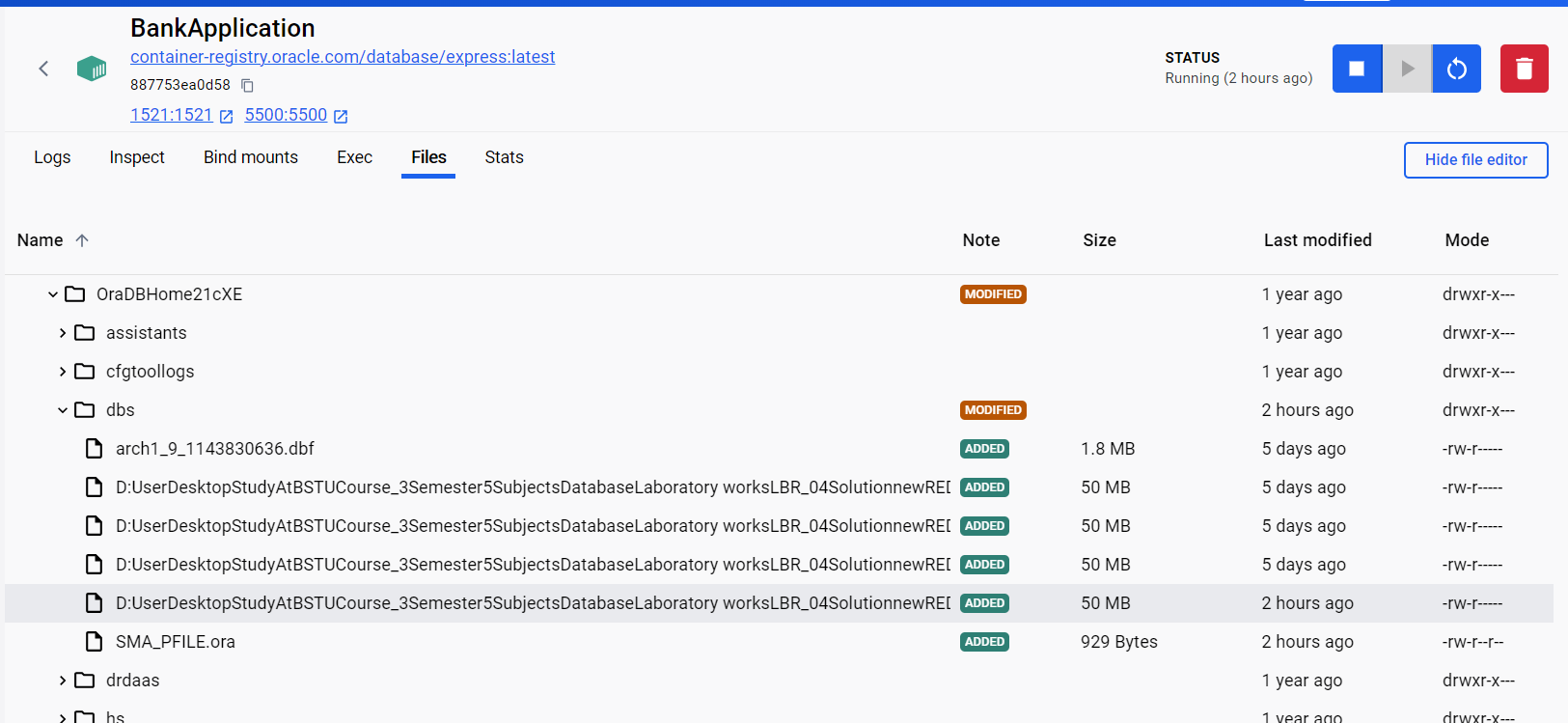
\*.undo\_tablespace='UNDOTBS1' // имя таблицы пространства для хранения откатов изменений

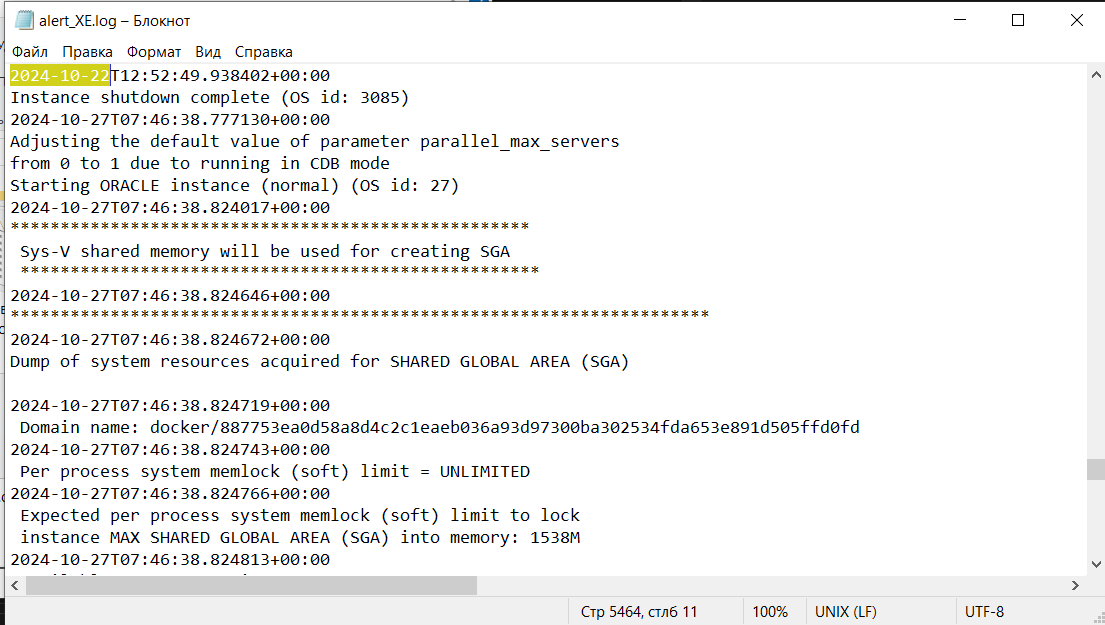




**25. EX.** Найдите и исследуйте содержимое протокола работы инстанса (LOG.XML), найдите в нем команды переключения журналов которые вы выполняли. – тут поможет время из задания 11







Содержимое лога в тот день, когда была сделана работа:

2024-10-22T12:51:45.617254+00:00

Oracle instance running with ODM in SGA: FSDirect ODM Library Version 1.0

Broadcast on commit is enabled and is using Message mode.

Starting background process PMON

2024-10-22T12:51:45.633901+00:00

PMON started with pid=2, OS id=2618

Starting background process CLMN

2024-10-22T12:51:45.643982+00:00

CLMN started with pid=3, OS id=2622

Starting background process PSP0

2024-10-22T12:51:45.655605+00:00

PSP0 started with pid=4, OS id=2626

Starting background process VKTM

2024-10-22T12:51:45.687137+00:00

Errors in file /opt/oracle/diag/rdbms/xe/XE/trace/XE\_vktm\_2630.trc (incident=28235) (PDBNAME=CDB$ROOT):

ORA-00800: soft external error, arguments: [Set Priority Failed], [VKTM], [Check traces and OS configuration], [Check Oracle document and MOS notes], []

Incident details in: /opt/oracle/diag/rdbms/xe/XE/incident/incdir\_28235/XE\_vktm\_2630\_i28235.trc

2024-10-22T12:51:45.688155+00:00

Error attempting to elevate VKTM's priority: no further priority changes will be attempted for this process

VKTM started with pid=5, OS id=2630

Starting background process GEN0

VKTM running at (100ms) precision

Starting background process MMAN

2024-10-22T12:51:45.724384+00:00

GEN0 started with pid=6, OS id=2636

2024-10-22T12:51:45.733100+00:00

MMAN started with pid=7, OS id=2640

Starting background process GEN1

Starting background process GEN2

2024-10-22T12:51:45.753415+00:00

GEN1 started with pid=9, OS id=2646\_2649

Starting background process VOSD

Starting background process DIAG

2024-10-22T12:51:45.760490+00:00

GEN2 started with pid=11, OS id=2648

Starting background process OFSD

Starting background process DBRM

2024-10-22T12:51:45.763101+00:00

DIAG started with pid=13, OS id=2653

Starting background process VKRM

Starting background process SVCB

Starting background process PMAN

Starting background process DIA0

Starting background process DBW0

Starting background process LGWR

Starting background process CKPT

Starting background process SMON

Starting background process SMCO

2024-10-22T12:51:45.764574+00:00

Dumping diagnostic data in directory=[cdmp\_20241022125145], requested by (instance=1, osid=2614), summary=[incident=28194].

2024-10-22T12:51:45.765664+00:00

VOSD started with pid=12, OS id=2651

Starting background process RECO

2024-10-22T12:51:45.772996+00:00

SVCB started with pid=18, OS id=2665

Starting background process LREG

Starting background process PXMN

2024-10-22T12:51:45.773612+00:00

DBRM started with pid=16, OS id=2659

2024-10-22T12:51:45.773614+00:00

VKRM started with pid=17, OS id=2663

Starting background process FENC

2024-10-22T12:51:45.776236+00:00

OFSD started with pid=14, OS id=2657\_2672

2024-10-22T12:51:45.776452+00:00

PMAN started with pid=19, OS id=2667

2024-10-22T12:51:45.777222+00:00

Oracle running with ofslib:'Oracle File Server Library' version=2 inc=1

Starting background process MMON

Starting background process MMNL

2024-10-22T12:51:45.782809+00:00

DIA0 started with pid=20, OS id=2669

2024-10-22T12:51:45.794217+00:00

SMON started with pid=24, OS id=2682

2024-10-22T12:51:45.795927+00:00

RECO started with pid=26, OS id=2688

2024-10-22T12:51:45.798682+00:00

CKPT started with pid=23, OS id=2680

2024-10-22T12:51:45.798737+00:00

DBW0 started with pid=21, OS id=2675

2024-10-22T12:51:45.800409+00:00

SMCO started with pid=25, OS id=2684

2024-10-22T12:51:45.801433+00:00

PXMN started with pid=28, OS id=2696

2024-10-22T12:51:45.802319+00:00

LREG started with pid=27, OS id=2693

2024-10-22T12:51:45.805406+00:00

FENC started with pid=29, OS id=2702

2024-10-22T12:51:45.810894+00:00

MMON started with pid=32, OS id=2706

2024-10-22T12:51:45.812228+00:00

Errors in file /opt/oracle/diag/rdbms/xe/XE/trace/XE\_lgwr\_2678.trc (incident=28371) (PDBNAME=CDB$ROOT):

ORA-00800: soft external error, arguments: [Set Priority Failed], [LGWR], [Check traces and OS configuration], [Check Oracle document and MOS notes], []

Incident details in: /opt/oracle/diag/rdbms/xe/XE/incident/incdir\_28371/XE\_lgwr\_2678\_i28371.trc

2024-10-22T12:51:45.813250+00:00

Error attempting to elevate LGWR's priority: no further priority changes will be attempted for this process

2024-10-22T12:51:45.820823+00:00

MMNL started with pid=33, OS id=2713

LGWR started with pid=22, OS id=2678

2024-10-22T12:51:45.848655+00:00

starting up 1 dispatcher(s) for network address '(ADDRESS=(PARTIAL=YES)(PROTOCOL=TCP))'...

starting up 1 shared server(s) ...

Starting background process TMON

2024-10-22T12:51:45.866423+00:00

LGWR slave LG00 created with pid=42, OS pid=2728

2024-10-22T12:51:45.874200+00:00

TMON started with pid=43, OS id=2730

2024-10-22T12:51:45.874982+00:00

RACD notifier running level=0

ORACLE\_BASE from environment = /opt/oracle

PMEM FILESTORE feature is only available in Oracle Database Enterprise Edition.

2024-10-22T12:51:45.898172+00:00

LGWR slave LG01 created with pid=45, OS pid=2735

2024-10-22T12:51:45.915363+00:00

ALTER DATABASE MOUNT

Successful mount of redo thread 1, with mount id 3064124833

2024-10-22T12:51:45.947929+00:00

Database mounted in Exclusive Mode

Lost write protection disabled

Completed: ALTER DATABASE MOUNT

2024-10-22T12:51:48.851420+00:00

Using default pga\_aggregate\_limit of 2048 MB

2024-10-22T12:51:48.929264+00:00

Starting background process ARC0

2024-10-22T12:51:48.938130+00:00

ARC0 started with pid=46, OS id=2740

Starting background process ARC1

2024-10-22T12:51:48.946544+00:00

ARC1 started with pid=48, OS id=2742

Starting background process ARC2

2024-10-22T12:51:48.954340+00:00

ARC2 started with pid=49, OS id=2744

Starting background process ARC3

2024-10-22T12:51:48.962945+00:00

ARC3 started with pid=50, OS id=2746

2024-10-22T12:51:52.343346+00:00

alter database noarchivelog

Completed: alter database noarchivelog

2024-10-22T12:51:58.266142+00:00

alter database open

2024-10-22T12:51:58.269033+00:00

Smart fusion block transfer is disabled:

instance mounted in exclusive mode.

2024-10-22T12:51:58.272550+00:00

Crash Recovery excluding pdb 2 which was cleanly closed.

2024-10-22T12:51:58.272583+00:00

Crash Recovery excluding pdb 3 which was cleanly closed.

Endian type of dictionary set to little

2024-10-22T12:51:58.282004+00:00

Redo log for group 4, sequence 10 is not located on DAX storage

Thread 1 opened at log sequence 10

Current log# 4 seq# 10 mem# 0: /opt/oracle/homes/OraDBHome21cXE/dbs/D:UserDesktopStudyAtBSTUCourse\_3Semester5SubjectsDatabaseLaboratory worksLBR\_04SolutionnewREDO04.LOG

Successful open of redo thread 1

2024-10-22T12:51:58.290632+00:00

MTTR advisory is disabled because FAST\_START\_MTTR\_TARGET is not set

Stopping change tracking

Undo initialization recovery: Parallel FPTR complete: start:12716712 end:12716713 diff:1 ms (0.0 seconds)

Undo initialization recovery: err:0 start: 12716712 end: 12716713 diff: 1 ms (0.0 seconds)

[2736] Successfully onlined Undo Tablespace 2.

Undo initialization online undo segments: err:0 start: 12716713 end: 12716748 diff: 35 ms (0.0 seconds)

Undo initialization finished serial:0 start:12716712 end:12716749 diff:37 ms (0.0 seconds)

Database Characterset is AL32UTF8

Opening with Resource Manager plan: DEFAULT\_CDB\_PLAN

Starting background process RCBG

2024-10-22T12:51:58.683016+00:00

RCBG started with pid=54, OS id=2756

replication\_dependency\_tracking turned off (no async multimaster replication found)

Starting background process AQPC

2024-10-22T12:51:58.840640+00:00

AQPC started with pid=55, OS id=2758

PDB$SEED(2):Pluggable database PDB$SEED opening in read only

PDB$SEED(2):Autotune of undo retention is turned on.

PDB$SEED(2):Endian type of dictionary set to little

PDB$SEED(2):Undo initialization finished serial:0 start:12717338 end:12717338 diff:0 ms (0.0 seconds)

PDB$SEED(2):Database Characterset for PDB$SEED is AL32UTF8

PDB$SEED(2):SUPLOG: Set PDB SUPLOG SGA at PDB OPEN, old 0x0, new 0x0 (no suplog)

PDB$SEED(2):Opening pdb with Resource Manager plan: DEFAULT\_PLAN

XEPDB1(3):Pluggable database XEPDB1 opening in read write

XEPDB1(3):SUPLOG: Initialize PDB SUPLOG SGA, old value 0x0, new value 0x18

XEPDB1(3):Autotune of undo retention is turned on.

2024-10-22T12:51:59.268085+00:00

XEPDB1(3):Endian type of dictionary set to little

2024-10-22T12:51:59.328014+00:00

XEPDB1(3):Undo initialization recovery: Parallel FPTR complete: start:12717677 end:12717679 diff:2 ms (0.0 seconds)

XEPDB1(3):Undo initialization recovery: err:0 start: 12717677 end: 12717679 diff: 2 ms (0.0 seconds)

XEPDB1(3):[2736] Successfully onlined Undo Tablespace 2.

XEPDB1(3):Undo initialization online undo segments: err:0 start: 12717679 end: 12717757 diff: 78 ms (0.1 seconds)

XEPDB1(3):Undo initialization finished serial:0 start:12717677 end:12717760 diff:83 ms (0.1 seconds)

XEPDB1(3):Database Characterset for XEPDB1 is AL32UTF8

XEPDB1(3):SUPLOG: Set PDB SUPLOG SGA at PDB OPEN, old 0x18, new 0x0 (no suplog)

2024-10-22T12:51:59.727773+00:00

:

QPI: opatch file present, opatch

:

QPI: qopiprep.bat file present

2024-10-22T12:51:59.856928+00:00

XEPDB1(3):Opening pdb with Resource Manager plan: DEFAULT\_PLAN

Pluggable database XEPDB1 opened read write

Starting background process CJQ0

2024-10-22T12:52:00.014647+00:00

CJQ0 started with pid=56, OS id=2764

Completed: alter database open

2024-10-22T12:52:00.972329+00:00

===========================================================

Dumping current patch information

===========================================================

No patches have been applied

===========================================================

2024-10-22T12:52:12.252902+00:00

alter database open

ORA-1531 signalled during: alter database open...

2024-10-22T12:52:46.659684+00:00

Shutting down ORACLE instance (immediate) (OS id: 3085)

Shutdown is initiated by sqlplus@887753ea0d58 (TNS V1-V3).

Stopping background process SMCO

Shutting down instance: further logons disabled

2024-10-22T12:52:46.833262+00:00

Stopping background process CJQ0

Stopping background process MMNL

Stopping background process MMON

alter pluggable database all close immediate

2024-10-22T12:52:47.271781+00:00

XEPDB1(3):Pluggable database XEPDB1 closing

XEPDB1(3):JIT: pid 3085 requesting stop

2024-10-22T12:52:47.277122+00:00

XEPDB1(3):Stopped service xepdb1

XEPDB1(3):Closing sequence subsystem (12765643422).

XEPDB1(3):Buffer Cache flush deferred for PDB 3

Pluggable database XEPDB1 closed

Completed: alter pluggable database all close immediate

PDB$SEED(2):Pluggable database PDB$SEED closing

PDB$SEED(2):JIT: pid 3085 requesting stop

PDB$SEED(2):Buffer Cache flush deferred for PDB 2

License high water mark = 3

Dispatchers and shared servers shutdown

Data Pump shutdown in progress

2024-10-22T12:52:47.399561+00:00

Process termination requested for pid 2736 [source = rdbms], [info = 2] [request issued by pid: 3085, uid: 54321]

2024-10-22T12:52:47.399890+00:00

Process termination requested for pid 3081 [source = rdbms], [info = 2] [request issued by pid: 3085, uid: 54321]

ALTER DATABASE CLOSE NORMAL

2024-10-22T12:52:47.584041+00:00

Stopping Emon pool

Stopping background process AQPC

2024-10-22T12:52:47.760744+00:00

alter pluggable database all close immediate

Completed: alter pluggable database all close immediate

alter pluggable database all close immediate

Completed: alter pluggable database all close immediate

IM on ADG: Start of Empty Journal

IM on ADG: End of Empty Journal

Stopping background process RCBG

Stopping Emon pool

Shutting down blockchain Apply - must do a restart blockchain after this.

Closing sequence subsystem (12766180920).

Stopping change tracking

2024-10-22T12:52:49.074085+00:00

Thread 1 closed at log sequence 10

Successful close of redo thread 1

2024-10-22T12:52:49.078335+00:00

Entire Buffer Cache invalidation started

Entire Buffer Cache invalidation completed

Completed: ALTER DATABASE CLOSE NORMAL

ALTER DATABASE DISMOUNT

Completed: ALTER DATABASE DISMOUNT

JIT: pid 3085 requesting stop

2024-10-22T12:52:49.364269+00:00

Stopping background process VKTM

2024-10-22T12:52:49.391968+00:00

JIT: pid 3085 requesting stop

2024-10-22T12:52:49.938402+00:00

Instance shutdown complete (OS id: 3085)