

TD3 - BDD

25-03-21

Partie 1 - Dictionnaire

Question 1

```
SELECT * FROM DICTIONARY;
```

La table DICTIONARY est composée de 2 colonnes :

- "TABLE_NAME" et
- "COMMENTS"

Cette table contient 994 lignes au total.

Question 2

```
SELECT * FROM dba_users;
```

SELECT * FROM dba_users;
SELECT * FROM user_users;
... question 3

Résultat de requête x
50 lignes extraites en 0.008 secondes

USERNAME	USER_ID	PASSWORD	ACCOUNT_STATUS	LOCK_DATE	EXPIRY_DATE	DEFAULT_TABLESPACE	TEMPORARY_TABLESPACE	CREATED	PROFILE	INITIAL_RSRC_CONSUMER_GROUP	EXTERNAL_NAME	PASSWORD_VERIFY
1 SYS	0 (null)	OPEN	(null)	(null)	SYSTEM	TEMP	07/07/14	DEFAULT	SYS_GROUP	(null)	106 116 12C	
2 AUDSYS	7 (null)	EXPIRED & LOCKED	07/07/14	07/07/14	USERS	TEMP	07/07/14	DEFAULT	DEFAULT_CONSUMER_GROUP	(null)	106 116 12C	
3 SYSTEM	8 (null)	OPEN	(null)	(null)	SYSTEM	TEMP	07/07/14	DEFAULT	SYS_GROUP	(null)	106 116 12C	
4 SYSBACKUP	2147483617 (null)	EXPIRED & LOCKED	07/07/14	07/07/14	USERS	TEMP	07/07/14	DEFAULT	DEFAULT_CONSUMER_GROUP	(null)	106 116 12C	
5 SYSDBG	2147483618 (null)	EXPIRED & LOCKED	07/07/14	07/07/14	USERS	TEMP	07/07/14	DEFAULT	DEFAULT_CONSUMER_GROUP	(null)	106 116 12C	
6 SYSKM	2147483619 (null)	EXPIRED & LOCKED	07/07/14	07/07/14	USERS	TEMP	07/07/14	DEFAULT	DEFAULT_CONSUMER_GROUP	(null)	106 116 12C	
7 OUTLN	13 (null)	EXPIRED & LOCKED	07/07/14	07/07/14	SYSTEM	TEMP	07/07/14	DEFAULT	DEFAULT_CONSUMER_GROUP	(null)	106 116 12C	
8 XS\$NULL	2147483638 (null)	EXPIRED & LOCKED	07/07/14	07/07/14	USERS	TEMP	07/07/14	DEFAULT	DEFAULT_CONSUMER_GROUP	(null)	116	
9 GSMADMIN_INTERNAL	21 (null)	EXPIRED & LOCKED	07/07/14	07/07/14	SYSAUX	TEMP	07/07/14	DEFAULT	DEFAULT_CONSUMER_GROUP	(null)	106 116 12C	
10 GMSUSER	22 (null)	EXPIRED & LOCKED	07/07/14	07/07/14	USERS	TEMP	07/07/14	DEFAULT	DEFAULT_CONSUMER_GROUP	(null)	106 116 12C	
11 DIP	23 (null)	EXPIRED & LOCKED	07/07/14	07/07/14	USERS	TEMP	07/07/14	DEFAULT	DEFAULT_CONSUMER_GROUP	(null)	106 116 12C	
12 ORACLE_OCM	36 (null)	EXPIRED & LOCKED	07/07/14	07/07/14	USERS	TEMP	07/07/14	DEFAULT	DEFAULT_CONSUMER_GROUP	(null)	106 116 12C	
13 DBSNMP	48 (null)	EXPIRED & LOCKED	07/07/14	07/07/14	SYSAUX	TEMP	07/07/14	DEFAULT	DEFAULT_CONSUMER_GROUP	(null)	106 116 12C	
14 APPQOSSYS	49 (null)	EXPIRED & LOCKED	07/07/14	07/07/14	SYSAUX	TEMP	07/07/14	DEFAULT	DEFAULT_CONSUMER_GROUP	(null)	106 116 12C	
15 XDB	50 (null)	OPEN	(null)	(null)	SYSAUX	TEMP	07/07/14	DEFAULT	DEFAULT_CONSUMER_GROUP	(null)	106 116 12C	
16 ANONYMOUS	51 (null)	OPEN	(null)	(null)	SYSAUX	TEMP	07/07/14	DEFAULT	DEFAULT_CONSUMER_GROUP	(null)	106 116 12C	
17 MDSYS	79 (null)	EXPIRED & LOCKED	07/07/14	07/07/14	SYSAUX	TEMP	07/07/14	DEFAULT	DEFAULT_CONSUMER_GROUP	(null)	106 116 12C	
18 OSMCATUSER	61 (null)	EXPIRED & LOCKED	07/07/14	07/07/14	USERS	TEMP	07/07/14	DEFAULT	DEFAULT_CONSUMER_GROUP	(null)	106 116 12C	
19 WMWYS	62 (null)	EXPIRED & LOCKED	07/07/14	07/07/14	SYSAUX	TEMP	07/07/14	DEFAULT	DEFAULT_CONSUMER_GROUP	(null)	106 116 12C	
20 OJWMSYS	70 (null)	EXPIRED & LOCKED	07/07/14	07/07/14	USERS	TEMP	07/07/14	DEFAULT	DEFAULT_CONSUMER_GROUP	(null)	106 116 12C	
21 CTXSYS	73 (null)	EXPIRED & LOCKED	07/07/14	07/07/14	SYSAUX	TEMP	07/07/14	DEFAULT	DEFAULT_CONSUMER_GROUP	(null)	106 116 12C	
22 ORDSYS	75 (null)	EXPIRED & LOCKED	07/07/14	07/07/14	SYSAUX	TEMP	07/07/14	DEFAULT	DEFAULT_CONSUMER_GROUP	(null)	106 116 12C	
23 ORDDATA	76 (null)	EXPIRED & LOCKED	07/07/14	07/07/14	SYSAUX	TEMP	07/07/14	DEFAULT	DEFAULT_CONSUMER_GROUP	(null)	106 116 12C	
24 ORDPLUGINS	77 (null)	EXPIRED & LOCKED	07/07/14	07/07/14	SYSAUX	TEMP	07/07/14	DEFAULT	DEFAULT_CONSUMER_GROUP	(null)	106 116 12C	
25 ST_INFORMTN_SCHEMA	78 (null)	EXPIRED & LOCKED	07/07/14	07/07/14	SYSAUX	TEMP	07/07/14	DEFAULT	DEFAULT_CONSUMER_GROUP	(null)	106 116 12C	
26 DWSYS	1279990 (null)	EXPIRED & LOCKED	07/07/14	07/07/14	SYSAUX	TEMP	07/07/14	DEFAULT	DEFAULT_CONSUMER_GROUP	(null)	106 116 12C	
27 OLAPSYS	82 (null)	EXPIRED & LOCKED	07/07/14	07/07/14	SYSAUX	TEMP	07/07/14	DEFAULT	DEFAULT_CONSUMER_GROUP	(null)	106 116 12C	
28 MDDATA	85 (null)	EXPIRED & LOCKED	07/07/14	07/07/14	USERS	TEMP	07/07/14	DEFAULT	DEFAULT_CONSUMER_GROUP	(null)	106 116 12C	
29 SPATIAL_WFS_ADMIN_USR	87 (null)	EXPIRED & LOCKED	07/07/14	07/07/14	USERS	TEMP	07/07/14	DEFAULT	DEFAULT_CONSUMER_GROUP	(null)	106 116 12C	
30 SPATIAL_CSW_ADMIN_USR	90 (null)	EXPIRED & LOCKED	07/07/14	07/07/14	USERS	TEMP	07/07/14	DEFAULT	DEFAULT_CONSUMER_GROUP	(null)	106 116 12C	
31 LBACSYS	92 (null)	EXPIRED & LOCKED	07/07/14	07/07/14	SYSTEM	TEMP	07/07/14	DEFAULT	DEFAULT_CONSUMER_GROUP	(null)	106 116 12C	

DBA_USERS

```
SELECT * FROM user_users;
```

SELECT * FROM user_users;
... question 3

Résultat de requête x
Toutes les lignes extraites : 1 en 0.004 secondes

USERNAME	USER_ID	ACCOUNT_STATUS	LOCK_DATE	EXPIRY_DATE	DEFAULT_TABLESPACE	TEMPORARY_TABLESPACE	CREATED	INITIAL_RSRC_CONSUMER_GROUP	EXTERNAL_NAME	PROXY_ONLY_CONNECT	COMMON	ORACLE_MAINTAINED
1 EL800010	189914	OPEN	(null)	(null)	ETUDIANTS	TEMP	10/07/20	DEFAULT_CONSUMER_GROUP	(null)	N	NO	N

USERS_USERS

Question 3

```
SELECT * FROM dba_objects a, dba_tables b, dba_indexes c  
WHERE a.owner=b.owner AND b.owner=c.owner AND c.owner='KESSLER_BDD';
```

SELECT * FROM dba_objects a, dba_tables b, dba_indexes c WHERE a.owner=b.owner AND b.owner=c.owner AND c.owner='KESSLER_BDD'

Résultat de requête

50 lignes extraites en 0,799 secondes

	OWNER	OBJECT_NAME	SUBOBJECT_NAME	OBJECT_ID	DATA_OBJECT_ID	OBJECT_TYPE	CREATED	LAST_DDL_TIME	TIMESTAMP	STATUS	TEMPORARY	GENERATED	SECONDARY	NAMESPACE	EDITION_NAME	ST
1	KESSLER_BDD	AFFECTATION	(null)	2019636	2019636	TABLE	10/02/21	10/02/21	2021-02-10-11:35:06	VALID	N	N	N	1 (null)	NONE	
2	KESSLER_BDD	AFFECTATIONCLEPRIM	(null)	2019637	2019637	INDEX	10/02/21	10/02/21	2021-02-10-11:35:06	VALID	N	N	N	4 (null)	NONE	
3	KESSLER_BDD	APPAREIL	(null)	2019634	2019634	TABLE	10/02/21	10/02/21	2021-02-10-11:34:43	VALID	N	N	N	1 (null)	NONE	
4	KESSLER_BDD	APPAREILCCEPRIM	(null)	2019635	2019635	INDEX	10/02/21	10/02/21	2021-02-10-11:34:43	VALID	N	N	N	4 (null)	NONE	
5	KESSLER_BDD	AVION	(null)	2019632	2019632	TABLE	10/02/21	10/02/21	2021-02-10-11:31:27	VALID	N	N	N	1 (null)	NONE	
6	KESSLER_BDD	AVIONCCEPRIM	(null)	2019633	2019633	INDEX	10/02/21	10/02/21	2021-02-10-11:31:27	VALID	N	N	N	4 (null)	NONE	
7	KESSLER_BDD	PILOTE	(null)	2019630	2019630	TABLE	10/02/21	10/02/21	2021-02-10-11:30:32	VALID	N	N	N	1 (null)	NONE	
8	KESSLER_BDD	PILOTECCEPRIM	(null)	2019631	2019631	INDEX	10/02/21	10/02/21	2021-02-10-11:30:32	VALID	N	N	N	4 (null)	NONE	
9	KESSLER_BDD	VOL	(null)	2019628	2019628	TABLE	10/02/21	04/03/21	2021-02-10-11:29:55	VALID	N	N	N	1 (null)	NONE	
10	KESSLER_BDD	VOLCCEPRIM	(null)	2019629	2019629	INDEX	10/02/21	10/02/21	2021-02-10-11:29:55	VALID	N	N	N	4 (null)	NONE	
11	KESSLER_BDD	AFFECTATION	(null)	2019636	2019636	TABLE	10/02/21	10/02/21	2021-02-10-11:35:06	VALID	N	N	N	1 (null)	NONE	
12	KESSLER_BDD	AFFECTATIONCCEPRIM	(null)	2019637	2019637	INDEX	10/02/21	10/02/21	2021-02-10-11:35:06	VALID	N	N	N	4 (null)	NONE	
13	KESSLER_BDD	APPAREIL	(null)	2019634	2019634	TABLE	10/02/21	10/02/21	2021-02-10-11:34:43	VALID	N	N	N	1 (null)	NONE	
14	KESSLER_BDD	APPAREILCCEPRIM	(null)	2019635	2019635	INDEX	10/02/21	10/02/21	2021-02-10-11:34:43	VALID	N	N	N	4 (null)	NONE	
15	KESSLER_BDD	AVION	(null)	2019632	2019632	TABLE	10/02/21	10/02/21	2021-02-10-11:31:27	VALID	N	N	N	1 (null)	NONE	
16	KESSLER_BDD	AVIONCCEPRIM	(null)	2019633	2019633	INDEX	10/02/21	10/02/21	2021-02-10-11:31:27	VALID	N	N	N	4 (null)	NONE	
17	KESSLER_BDD	PILOTE	(null)	2019630	2019630	TABLE	10/02/21	10/02/21	2021-02-10-11:30:32	VALID	N	N	N	1 (null)	NONE	
18	KESSLER_BDD	PILOTECCEPRIM	(null)	2019631	2019631	INDEX	10/02/21	10/02/21	2021-02-10-11:30:32	VALID	N	N	N	4 (null)	NONE	
19	KESSLER_BDD	VOL	(null)	2019628	2019628	TABLE	10/02/21	04/03/21	2021-02-10-11:29:55	VALID	N	N	N	1 (null)	NONE	
20	KESSLER_BDD	VOLCCEPRIM	(null)	2019629	2019629	INDEX	10/02/21	10/02/21	2021-02-10-11:29:55	VALID	N	N	N	4 (null)	NONE	
21	KESSLER_BDD	AFFECTATION	(null)	2019636	2019636	TABLE	10/02/21	10/02/21	2021-02-10-11:35:06	VALID	N	N	N	1 (null)	NONE	
22	KESSLER_BDD	AFFECTATIONCCEPRIM	(null)	2019637	2019637	INDEX	10/02/21	10/02/21	2021-02-10-11:35:06	VALID	N	N	N	4 (null)	NONE	
23	KESSLER_BDD	APPAREIL	(null)	2019634	2019634	TABLE	10/02/21	10/02/21	2021-02-10-11:34:43	VALID	N	N	N	1 (null)	NONE	
24	KESSLER_BDD	APPAREILCCEPRIM	(null)	2019635	2019635	INDEX	10/02/21	10/02/21	2021-02-10-11:34:43	VALID	N	N	N	4 (null)	NONE	
25	KESSLER_BDD	AVION	(null)	2019632	2019632	TABLE	10/02/21	10/02/21	2021-02-10-11:31:27	VALID	N	N	N	1 (null)	NONE	
26	KESSLER_BDD	AVIONCCEPRIM	(null)	2019633	2019633	INDEX	10/02/21	10/02/21	2021-02-10-11:31:27	VALID	N	N	N	4 (null)	NONE	
27	KESSLER_BDD	PILOTE	(null)	2019630	2019630	TABLE	10/02/21	10/02/21	2021-02-10-11:30:32	VALID	N	N	N	1 (null)	NONE	
28	KESSLER_BDD	PILOTECCEPRIM	(null)	2019631	2019631	INDEX	10/02/21	10/02/21	2021-02-10-11:30:32	VALID	N	N	N	4 (null)	NONE	
29	KESSLER_BDD	VOL	(null)	2019628	2019628	TABLE	10/02/21	04/03/21	2021-02-10-11:29:55	VALID	N	N	N	1 (null)	NONE	
30	KESSLER_BDD	VOLCCEPRIM	(null)	2019629	2019629	INDEX	10/02/21	10/02/21	2021-02-10-11:29:55	VALID	N	N	N	4 (null)	NONE	

DBA_OBJECTS, DBA_TABLES, DBA_INDEXES

Question 4

SELECT * FROM V\$INSTANCE;

SELECT * FROM V\$INSTANCE;
SELECT * FROM V\$PARAMETER;
*** Partie 2 - Fichiers ***

Résultat de requête

Toutes les lignes extraites : 1 en 0,003 secondes

	INSTANCE_NUMBER	INSTANCE_NAME	HOST_NAME	VERSION	STARTUP_TIME	STATUS	PARALLEL	THREAD#	ARCHIVER	LOG_SWITCH_WAIT	LOGINS	SHUTDOWN_PENDING	DATABASE_STATUS	INSTANCE_ROLE	ACTIVE_STATE	B
1	1	oraclautd	trionychidae12.1.0.2.0	12/03/21	OPEN	NO		1	STOPPED	(null)	ALLOWED	NO	ACTIVE	PRIMARY_INSTANCE	NORMAL	NO

V\$INSTANCE

SELECT * FROM V\$PARAMETER;

SELECT * FROM V\$PARAMETER;
*** Partie 2 - Fichiers ***

Résultat de requête

50 lignes extraites en 0,009 secondes

	NUM	NAME	TYPE	VALUE	DISPLAY_VALUE	DEFAULT_VALUE	ISDEFAULT	ISSES_MODIFIABLE	ISSYS_MODIFIABLE	IS
1	41	local_name_space	2 (null)	(null)	(null)	NULL	TRUE	FALSE	FALSE	FALSE
2	42	processes	3	300	300	0	FALSE	FALSE	FALSE	FALSE
3	43	sessions	3	472	472	0	TRUE	FALSE	IMMEDIATE	TRUE
4	44	timed_statistics	1	TRUE	TRUE	TRUE	TRUE	TRUE	IMMEDIATE	TRUE
5	45	timed_os_statistics	3	0	0	0	TRUE	TRUE	IMMEDIATE	TRUE
6	46	resource_limit	1	TRUE	TRUE	FALSE	TRUE	FALSE	IMMEDIATE	TRUE
7	47	license_max_sessions	3	0	0	1	TRUE	FALSE	IMMEDIATE	FALSE
8	48	license_sessions_warning	3	0	0	0	TRUE	FALSE	IMMEDIATE	FALSE
9	91	cpu_count	3	4	4	0	TRUE	FALSE	IMMEDIATE	FALSE
10	97	instance_groups	2 (null)	(null)	(null)	NULL	TRUE	FALSE	FALSE	FALSE
11	102	event	2 (null)	(null)	(null)	NULL	TRUE	FALSE	FALSE	FALSE
12	116	sga_max_size	6	2466250752	2352M	1000	TRUE	FALSE	FALSE	FALSE
13	123	use_large_pages	2	TRUE	TRUE	NULL	TRUE	FALSE	FALSE	FALSE
14	128	pre_page_sga	1	TRUE	TRUE	FALSE	TRUE	FALSE	FALSE	FALSE
15	129	shared_memory_address	3	0	0	1	TRUE	FALSE	FALSE	FALSE
16	130	hi_shared_memory_address	3	0	0	0	TRUE	FALSE	FALSE	FALSE
17	131	use_indirect_data_buffers	1	FALSE	FALSE	FALSE	TRUE	FALSE	FALSE	FALSE
18	133	lock_sga	1	FALSE	FALSE	TRUE	TRUE	FALSE	FALSE	FALSE
19	182	processor_group_name	2 (null)	(null)	(null)	NULL	TRUE	FALSE	FALSE	FALSE
20	206	shared_pool_size	6	0	0	0	TRUE	FALSE	IMMEDIATE	FALSE
21	208	large_pool_size	6	0	0	0	TRUE	FALSE	IMMEDIATE	FALSE
22	210	java_pool_size	6	0	0	0	TRUE	FALSE	IMMEDIATE	FALSE
23	212	streams_pool_size	6	0	0	0	TRUE	FALSE	IMMEDIATE	FALSE
24	214	shared_pool_reserved_size	6	25165824	24M	3	TRUE	FALSE	FALSE	FALSE
25	217	java_soft_sessionspace_limit	3	0	0	4400	TRUE	FALSE	FALSE	FALSE
26	218	java_max_sessionspace_size	3	0	0	0	TRUE	FALSE	FALSE	FALSE
27	220	pga_aggregate_limit	6	2147483648	2G	1	TRUE	FALSE	IMMEDIATE	FALSE
28	230	enfile	2	/opt/annls/oracle/dhhome 121/dbs/enfileoraautd ora	/opt/annls/oracle/dhhome 121/dbs/enfileoraautd ora	TRUE	FALSE	FALSE	IMMEDIATE	FALSE

V\$PARAMETER

Partie 2 - Fichiers

Question 1 - fichiers de données

SELECT * FROM V\$DBFILE;

Les fichiers sont listés dans la colonne NAME.

2 sur 5

TD3 - BDD

```
SELECT * FROM V$DBFILE;
SELECT * FROM V$DATAFILE;
SELECT * FROM DBA_DATA_FILES;
```

Résultat de requête

Toutes les lignes extraites : 5 en 0,003 secondes

FILE#	NAME	CON_ID
1	6/opt/data/oracle/oradata/oraetud/users01.dbf	0
2	4/opt/data/oracle/oradata/oraetud/undotbs01.dbf	0
3	1/opt/data/oracle/oradata/oraetud/system01.dbf	0
4	3/opt/data/oracle/oradata/oraetud/sysaux01.dbf	0
5	5/opt/data/oracle/oradata/oraetud/etudiants	0

V\$DBFILE

On peut voir leurs date de création via la colonne CREATION_TIME

```
SELECT * FROM V$DATAFILE;
```

```
SELECT * FROM V$DATAFILE;
SELECT * FROM DBA_DATA_FILES;
```

Résultat de requête

Toutes les lignes extraites : 5 en 0,005 secondes

FILE#	CREATION_CHANGE#	CREATION_TIME	TS#	FILE#	STATUS	ENABLED	CHECKPOINT_CHANGE#	CHECKPOINT_TIME	UNRECOVERABLE_CHANGE#	UNRECOVERABLE_TIME	LAST_CHANGE#	LAST_TIME	OFFLINE_CHANGE#	ONLINE_CHANGE#
1	1	7 07/07/14	0	1	SYSTEM	READ WRITE	368454312 18/03/21		0 (null)		(null) (null)			1594142
2	3	4180 07/07/14	1	3	ONLINE	READ WRITE	368454312 18/03/21		0 (null)		(null) (null)			1594142
3	4	1591076 07/07/14	2	4	ONLINE	READ WRITE	368454312 18/03/21		0 (null)		(null) (null)			1594142
4	5	2764624 21/04/15	6	5	ONLINE	READ WRITE	368454312 18/03/21		0 (null)		(null) (null)			0
5	6	24908 07/07/14	4	6	ONLINE	READ WRITE	368454312 18/03/21		0 (null)		(null) (null)			1594142

V\$DATAFILE

Nous pouvons voir la taille de ces fichiers grâce à la colonne BYTES Nous pouvons aussi voir via la colonne CHECKPOINT_CHANGE# la "date" (compteur SCN - System Change Number) du dernier checkpoint.

```
SELECT * FROM V$DATAFILE;
SELECT * FROM DBA_DATA_FILES;
```

Résultat de requête

Toutes les lignes extraites : 5 en 0,003 secondes

OFFLINE_CHANGE#	ONLINE_CHANGE#	ONLINE_TIME	BYTES	BLOCKS	CREATE_BYTES	BLOCK_SIZE	NAME	PLUGGED_IN	BLOCK1_OFFSET	AUX_NAME	FIRST_NONLOGGED_SCN	FIRST
1	1594142	1594143 07/04/15	1950351360	238080	0	8192	/opt/data/oracle/oradata/oraetud/system01.dbf	0	8192	NONE	0 (null)	0 (null)
2	1594142	1594143 07/04/15	2694840320	328960	0	8192	/opt/data/oracle/oradata/oraetud/sysaux01.dbf	0	8192	NONE	0 (null)	0 (null)
3	1594142	1594143 07/04/15	12884901888	1572864	0	8192	/opt/data/oracle/oradata/oraetud/undotbs01.dbf	0	8192	NONE	0 (null)	0 (null)
4	0	0 (null)	12206931968	1490104	6442450944	8192	/opt/data/oracle/oradata/oraetud/etudiants	0	8192	NONE	0 (null)	0 (null)
5	1594142	1594143 07/04/15	5242880	640	0	8192	/opt/data/oracle/oradata/oraetud/users01.dbf	0	8192	NONE	0 (null)	0 (null)

V\$DATAFILE

Nous pouvons voir grâce à la commande suivante à quels tablespaces ces fichiers sont associés.

```
SELECT * FROM DBA_DATA_FILES;
```

```
SELECT * FROM DBA_DATA_FILES;
```

Résultat de requête

Toutes les lignes extraites : 5 en 0,003 secondes

FILE_NAME	FILE_ID	TABLESPACE_NAME	BYTES	BLOCKS	STATUS	RELATIVE_FNO	AUTOEXTENSIBLE	MAXBYTES	MAXBLOCKS	INCREMENT_BY	USER_BYTES	USER_BLOCKS	ONLINE_S
1 /opt/data/oracle/oradata/oraetud/system01.dbf	1	SYSTEM	1950351360	238080	AVAILABLE	1	YES	34359721984	4194302	1280	1949302784	237952	SYSTEM
2 /opt/data/oracle/oradata/oraetud/sysaux01.dbf	3	SYSAux	2694840320	328960	AVAILABLE	3	YES	34359721984	4194302	1280	2693791744	328832	ONLINE
3 /opt/data/oracle/oradata/oraetud/etudiants	5	ETUDIANTS	12206931968	1490104	AVAILABLE	5	YES	32212254720	3932160	1	12205883392	1489976	ONLINE
4 /opt/data/oracle/oradata/oraetud/users01.dbf	6	USERS	5242880	640	AVAILABLE	6	YES	34359721984	4194302	160	4194304	512	ONLINE
5 /opt/data/oracle/oradata/oraetud/undotbs01.dbf	4	UNDOTBS1	12884901888	1572864	AVAILABLE	4	YES	20022558720	2444160	640	12883853312	1572736	ONLINE

V\$DBA_DATA_FILES

Question 2 - fichiers de reprise

Les fichiers de reprises sont listés dans la colonne MEMBER.

```
SELECT * FROM V$LOGFILE;
```

```
SELECT * FROM V$LOGFILE;
SELECT * FROM V$LOG;
SELECT * FROM V$LOG_HISTORY;
```

... question 3 - fichiers de contrôle

Résultat de requête

Toutes les lignes extraites : 3 en 0,003 secondes

GROUP#	STATUS	TYPE	MEMBER	IS_RECOVERY_DEST_FILE	CON_ID
1	3 (null)	ONLINE	/opt/data/oracle/oradata/oraetud/redo03.log NO	0	0
2	2 (null)	ONLINE	/opt/data/oracle/oradata/oraetud/redo02.log NO	0	0
3	1 (null)	ONLINE	/opt/data/oracle/oradata/oraetud/redo01.log NO	0	0

V\$LOGFILE

La taille de chaque se trouve dans la colonne BYTES.

Le fichier de reprise en cours est marqué CURRENT dans la colonne STATUS.

Les fichiers ne sont pas multiplexés. La base n'est pas en ARCHIVELOG, c'est marqué NO dans la colonne ARCHIVE.

```
SELECT * FROM V$LOG;
```

```
SELECT * FROM V$LOG;
SELECT * FROM V$LOG_HISTORY;
```

... question 3 - fichiers de contrôle

Résultat de requête

Toutes les lignes extraites : 3 en 0,006 secondes

GROUP#	THREAD#	SEQUENCE#	BYTES	BLOCKSIZE	MEMBERS	ARCHIVED	STATUS	FIRST_CHANGE#	FIRST_TIME	NEXT_CHANGE#	NEXT_TIME	CON_ID
1	1	1	17998 52428800	512	1	NO	INACTIVE	368441385 17/03/21		368454312 18/03/21		0
2	2	1	17999 52428800	512	1	NO	INACTIVE	368454312 18/03/21		368488311 18/03/21		0
3	3	1	18000 52428800	512	1	NO	CURRENT	368488311 18/03/21	281474976710655 (null)			0

V\$LOG

```
SELECT * FROM V$LOG_HISTORY;
```

SELECT * FROM V\$LOG_HISTORY;

-- question 3 - fichiers de contrôle

RECID	STAMP	THREAD#	SEQUENCE#	FIRST_CHANGE#	FIRST_TIME	NEXT_CHANGE#	RESETLOGS_CHANGE#	RESETLOGS_TIME	CON_ID
1	15664 10231.70416	1	15664	299065827	01/11/19	299080947		1594143 07/04/15	0
2	15665 102321.7243	1	15665	299080947	01/11/19	299118455		1594143 07/04/15	0
3	15666 10232390.38	1	15666	299118455	01/11/19	299136265		1594143 07/04/15	0
4	15667 10232496.01	1	15667	299136265	02/11/19	299145766		1594143 07/04/15	0
5	15668 10232892.25	1	15668	299145766	02/11/19	299179526		1594143 07/04/15	0
6	15669 10233254.88	1	15669	299179526	02/11/19	299208564		1594143 07/04/15	0
7	15670 10233504.62	1	15670	299208564	03/11/19	299229927		1594143 07/04/15	0
8	15671 10233972.29	1	15671	299229927	03/11/19	299266245		1594143 07/04/15	0
9	15672 10234119.41	1	15672	299266245	03/11/19	299279467		1594143 07/04/15	0
10	15673 10234512.59	1	15673	299279467	04/11/19	299314044		1594143 07/04/15	0
11	15674 10234538.87	1	15674	299314044	04/11/19	299335516		1594143 07/04/15	0
12	15675 10234692.11	1	15675	299335516	04/11/19	299360089		1594143 07/04/15	0
13	15676 10234983.89	1	15676	299360089	04/11/19	299384713		1594143 07/04/15	0
14	15677 10235160.38	1	15677	299384713	05/11/19	299399799		1594143 07/04/15	0
15	15678 10235628.06	1	15678	299399799	05/11/19	299437485		1594143 07/04/15	0
16	15679 10235848.40	1	15679	299437485	05/11/19	299455856		1594143 07/04/15	0
17	15680 10236171.42	1	15680	299455856	06/11/19	299485636		1594143 07/04/15	0
18	15681 10236188.40	1	15681	299485636	06/11/19	299509379		1594143 07/04/15	0
19	15682 10236203.40	1	15682	299509379	06/11/19	299531041		1594143 07/04/15	0
20	15683 10236208.59	1	15683	299531041	06/11/19	299546629		1594143 07/04/15	0
21	15684 10236236.04	1	15684	299546629	06/11/19	299568453		1594143 07/04/15	0
22	15685 10236249.30	1	15685	299568453	06/11/19	299587945		1594143 07/04/15	0
23	15686 10236262.35	1	15686	299587945	06/11/19	299609625		1594143 07/04/15	0
24	15687 10236312.45	1	15687	299609625	06/11/19	299628197		1594143 07/04/15	0
25	15688 10236321.78	1	15688	299628197	06/11/19	299649538		1594143 07/04/15	0
26	15689 10236328.98	1	15689	299649538	06/11/19	299670483		1594143 07/04/15	0
27	15690 10236333.90	1	15690	299670483	06/11/19	299692496		1594143 07/04/15	0
28	15691 10236341.52	1	15691	299692496	06/11/19	299715622		1594143 07/04/15	0

V\$LOG_HISTORY

Question 3 - fichiers de contrôle

Les noms des fichiers se trouvent dans la colonne MEMBER et leur taille dans les colonnes BLOCK_SIZE et FILE_SIZE_BKLS.

SELECT * FROM V\$CONTROLFILE;

-- question 3 - fichiers de contrôle

SELECT * FROM V\$CONTROLFILE;

STATUS	NAME	IS_RECOVERY_DEST_FILE	BLOCK_SIZE	FILE_SIZE_BKLS	CON_ID
1 (null)	/opt/data/oracle/oradata/oraetud/control01.ctl	NO	16384	626	0
2 (null)	/opt/data/oracle/fast_recovery_area/oraetud/control02.ctl	NO	16384	626	0

V\$CONTROLFILE

On trie la requête sur la table V\$DATABASE avec les champs que l'on veut, donc on récupère le nom, puis la date de création du fichier et enfin le numéro du scn.

SELECT NAME, CREATED, CHECKPOINT_CHANGE# FROM V\$DATABASE;

SELECT NAME, CREATED, CHECKPOINT_CHANGE# FROM V\$DATABASE;

NAME	CREATED	CHECKPOINT_CHANGE#
1 ORAETUD 07/04/15		368488311

V\$DATABASE

Partie 3 - Mémoire

Question 1

La taille de la "SGA" (System Global Area) se trouve dans la colonne VALUE, 1ère ligne de la table V\$SGAINFO.

On trouve aussi cette valeur (ici 2927384 B) dans la colonne BYTES de la table V\$SGA.

On remarque aussi la colonne RESIZEABLE, qui veut dire redimensionnable en français et signifie si les zones qui composent la SGA sont ou ne sont pas allouées dynamiquement. Si elles le sont, ce sera marqué YES, sinon NO.

SELECT * FROM V\$SGAINFO;

SELECT * FROM V\$SGAINFO;

NAME	BYTES	RESIZEABLE	CON_ID
1 Fixed SGA Size	2927384	No	0
2 Redo Buffers	13848576	No	0
3 Buffer Cache Size	1627389952	Yes	0
4 In-Memory Area Size	0	No	0
5 Shared Pool Size	771751936	Yes	0
6 Large Pool Size	33554432	Yes	0
7 Java Pool Size	16777216	Yes	0
8 Streams Pool Size	0	Yes	0
9 Shared IO Pool Size	117440512	Yes	0
10 Data Transfer Cache Size	0	Yes	0
11 Granule Size	16777216	No	0
12 Maxium SGA Size	2466250752	No	0
13 Startup overhead in Shared Pool	161276688	No	0
14 Free SGA Memory Available	0 (null)		0

V\$SGAINFO

Nous n'obtenons aucune information de la requête suivante.

SELECT * FROM V\$SGPROCESS;

Question 2

La zone LC de la shared pool se trouve dans la table V\$SGASTAT, dans la colonne POOL.

SELECT * FROM V\$SGASTAT;

POOL	NAME	BYTES	CON_ID
1 (null)	fixed_sga	2927384	0
2 (null)	buffer_cache	1761607680	0
3 (null)	log_buffer	13848576	0
4 (null)	shared_io_pool	117440512	0
5 shared pool	KSFD SGA I/O b	4190360	0
6 shared pool	KTMC hash latch cleanup	14336	0
7 shared pool	IPS_PACKAGE_UNPACK_HISTOR	1128	0
8 shared pool	kcnn.cql43	136	0
9 shared pool	Transportable DB Convert	4720	0
10 shared pool	pesha.c: latch	160	0
11 shared pool	KTMP3 Priv latches	1760	0
12 shared pool	cinfo_kfnsq	4104	0
13 shared pool	enqueue_hash	46992	0
14 shared pool	namrec_kfnsq	24	0
15 shared pool	file state object	4939008	0

Partie 4 - Processus

L'ensemble des processus se trouvent dans la table V\$PROCESS, et on retrouve leur PID dans la colonne de ce même nom.

SELECT * FROM V\$PROCESS;

ADDR	PID	SOSID	SPID	STID	EXECUTION_TYPE	PNAME	USERNAME	SERIAL#	TERMINAL	PROGRAM	TRACEID	TRACEFILE	BACKGROUND
1 00000000F2A44C68	1 (null)	(null)	(null)	(null)	NONE	(null)	(null)	0 (null)	(null)	PSEUDO	(null)	/opt/app/ls/oracle/diag/rdbms/oraetud/oraetud/trace/oraetud_ora_0.trc	(null)
2 00000000F2A45790	21569	1569	1569	1569	PROCESS	PMON	oracle	1 UNKNOWN	oracle@trionychidae (PMON)	(null)	/opt/app/ls/oracle/diag/rdbms/oraetud/oraetud/trace/oraetud_pmon_1569.trc	1	(n
3 00000000F2A462B8	31571	1571	1571	1571	PROCESS	PSPO	oracle	1 UNKNOWN	oracle@trionychidae (PSPO)	(null)	/opt/app/ls/oracle/diag/rdbms/oraetud/oraetud/trace/oraetud_psp0_1571.trc	1	(n
4 00000000F2A46DE0	41574	1574	1574	1574	PROCESS	VKTM	oracle	1 UNKNOWN	oracle@trionychidae (VKTM)	(null)	/opt/app/ls/oracle/diag/rdbms/oraetud/oraetud/trace/oraetud_vk1w_1574.trc	1	(n
5 00000000F2A47908	51578	1578	1578	1578	PROCESS	GEN0	oracle	1 UNKNOWN	oracle@trionychidae (GEN0)	(null)	/opt/app/ls/oracle/diag/rdbms/oraetud/oraetud/trace/oraetud_gen0_1578.trc	1	(n
6 00000000F2A48430	61580	1580	1580	1580	PROCESS	PMAN	oracle	1 UNKNOWN	oracle@trionychidae (PMAN)	(null)	/opt/app/ls/oracle/diag/rdbms/oraetud/oraetud/trace/oraetud_pman_1580.trc	1	(n
7 00000000F2A48F58	71918	1918	1918	1918	PROCESS	QM02	oracle	5 UNKNOWN	oracle@trionychidae (QM02)	(null)	/opt/app/ls/oracle/diag/rdbms/oraetud/oraetud/trace/oraetud_qm02_1918.trc	1	(n
8 00000000F2A49A80	81584	1584	1584	1584	PROCESS	DIAG	oracle	1 UNKNOWN	oracle@trionychidae (DIAG)	(null)	/opt/app/ls/oracle/diag/rdbms/oraetud/oraetud/trace/oraetud_diag_1584.trc	1	(n
9 00000000F2A4A5A8	91586	1586	1586	1586	PROCESS	DBRM	oracle	1 UNKNOWN	oracle@trionychidae (DBRM)	(null)	/opt/app/ls/oracle/diag/rdbms/oraetud/oraetud/trace/oraetud_dbm_1586.trc	1	(n
10 00000000F2A4AB00	101588	1588	1588	1588	PROCESS	VKRM	oracle	1 UNKNOWN	oracle@trionychidae (VKRM)	(null)	/opt/app/ls/oracle/diag/rdbms/oraetud/oraetud/trace/oraetud_vkr_1588.trc	1	(n
11 00000000F2A4B8F8	111590	1590	1590	1590	PROCESS	DIAG	oracle	1 UNKNOWN	oracle@trionychidae (DIAG)	(null)	/opt/app/ls/oracle/diag/rdbms/oraetud/oraetud/trace/oraetud_db_1590.trc	1	(n
12 00000000F2A4C720	121592	1592	1592	1592	PROCESS	DBW0	oracle	1 UNKNOWN	oracle@trionychidae (DBW0)	(null)	/opt/app/ls/oracle/diag/rdbms/oraetud/oraetud/trace/oraetud_dbw0_1592.trc	1	(n
13 00000000F2A4D248	131594	1594	1594	1594	PROCESS	LQWR	oracle	1 UNKNOWN	oracle@trionychidae (LQWR)	(null)	/opt/app/ls/oracle/diag/rdbms/oraetud/oraetud/trace/oraetud_lqwr_1594.trc	1	(n
14 00000000F2A4D070	141596	1596	1596	1596	PROCESS	CKPT	oracle	1 UNKNOWN	oracle@trionychidae (CKPT)	(null)	/opt/app/ls/oracle/diag/rdbms/oraetud/oraetud/trace/oraetud_ckpt_1596.trc	1	(n
15 00000000F2A4E898	151598	1598	1598	1598	PROCESS	LG00	oracle	1 UNKNOWN	oracle@trionychidae (LG00)	(null)	/opt/app/ls/oracle/diag/rdbms/oraetud/oraetud/trace/oraetud_lg00_1598.trc	1	(n
16 00000000F2A4F3C0	161600	1600	1600	1600	PROCESS	SMON	oracle	1 UNKNOWN	oracle@trionychidae (SMON)	(null)	/opt/app/ls/oracle/diag/rdbms/oraetud/oraetud/trace/oraetud_smon_1600.trc	1	(n
17 00000000F2A4FEB8	171602	1602	1602	1602	PROCESS	LG01	oracle	1 UNKNOWN	oracle@trionychidae (LG01)	(null)	/opt/app/ls/oracle/diag/rdbms/oraetud/oraetud/trace/oraetud_lg01_1602.trc	1	(n
18 00000000F2A50A10	181604	1604	1604	1604	PROCESS	RECO	oracle	1 UNKNOWN	oracle@trionychidae (RECO)	(null)	/opt/app/ls/oracle/diag/rdbms/oraetud/oraetud/trace/oraetud_reco_1604.trc	1	(n
19 00000000F2A51538	191606	1606	1606	1606	PROCESS	LREG	oracle	1 UNKNOWN	oracle@trionychidae (LREG)	(null)	/opt/app/ls/oracle/diag/rdbms/oraetud/oraetud/trace/oraetud_lreg_1606.trc	1	(n
20 00000000F2A52060	201608	1608	1608	1608	PROCESS	PXMN	oracle	1 UNKNOWN	oracle@trionychidae (PXMN)	(null)	/opt/app/ls/oracle/diag/rdbms/oraetud/oraetud/trace/oraetud_pxmn_1608.trc	1	(n
21 00000000F2A52B88	211610	1610	1610	1610	PROCESS	PMON	oracle	1 UNKNOWN	oracle@trionychidae (PMON)	(null)	/opt/app/ls/oracle/diag/rdbms/oraetud/oraetud/trace/oraetud_pmon_1610.trc	1	(n
22 00000000F2A53B80	221612	1612	1612	1612	PROCESS	PMNL	oracle	1 UNKNOWN	oracle@trionychidae (PMNL)	(null)	/opt/app/ls/oracle/diag/rdbms/oraetud/oraetud/trace/oraetud_pmnl_1612.trc	1	(n
23 00000000F2A54108	231614	1614	1614	1614	PROCESS	D000	oracle	1 UNKNOWN	oracle@trionychidae (D000)	(null)	/opt/app/ls/oracle/diag/rdbms/oraetud/oraetud/trace/oraetud_d000_1614.trc	(null)	(n
24 00000000F2A54D00	241616	1616	1616	1616	PROCESS	S000	oracle	1 UNKNOWN	oracle@trionychidae (S000)	(null)	/opt/app/ls/oracle/diag/rdbms/oraetud/oraetud/trace/oraetud_s000_1616.trc	(null)	(n
25 00000000F2A55828	251618	1618	1618	1618	PROCESS	S001	oracle	1 UNKNOWN	oracle@trionychidae (S001)	(null)	/opt/app/ls/oracle/diag/rdbms/oraetud/oraetud/trace/oraetud_s001_1618.trc	(null)	(n
26 00000000F2A56350	261620	1620	1620	1620	PROCESS	S002	oracle	1 UNKNOWN	oracle@trionychidae (S002)	(null)	/opt/app/ls/oracle/diag/rdbms/oraetud/oraetud/trace/oraetud_s002_1620.trc	(null)	(n
27 00000000F2A56E78	271622	1622	1622	1622	PROCESS	S003	oracle	1 UNKNOWN	oracle@trionychidae (S003)	(null)	/opt/app/ls/oracle/diag/rdbms/oraetud/oraetud/trace/oraetud_s003_1622.trc	(null)	(n
28 00000000F2A579A0	281624	1624	1624	1624	PROCESS	S004	oracle	1 UNKNOWN	oracle@trionychidae (S004)	(null)	/opt/app/ls/oracle/diag/rdbms/oraetud/oraetud/trace/oraetud_s004_1624.trc	(null)	(n
29 00000000F2A584C8	291644	1644	1644	1644	PROCESS	P000	oracle	2 UNKNOWN	oracle@trionychidae (P000)	(null)	/opt/app/ls/oracle/diag/rdbms/oraetud/oraetud/trace/oraetud_p000_1644.trc	(null)	(n
30 00000000F2A58FF0	301646	1646	1646	1646	PROCESS	P001	oracle	2 UNKNOWN	oracle@trionychidae (P001)	(null)	/opt/app/ls/oracle/diag/rdbms/oraetud/oraetud/trace/oraetud_p001_1646.trc	(null)	(n
31 00000000F2A59B18	311648	1648	1648	1648	PROCESS	P002	oracle	2 UNKNOWN	oracle@trionychidae (P002)	(null)	/opt/app/ls/oracle/diag/rdbms/oraetud/oraetud/trace/oraetud_p002_1648.trc	(null)	(n
32 00000000F2A5A640	321650	1650	1650	1650	PROCESS	TMON	oracle	1 UNKNOWN	oracle@trionychidae (TMON)	(null)	/opt/app/ls/oracle/diag/rdbms/oraetud/oraetud/trace/oraetud_tmon_1650.trc	1	(n
33 00000000F2A5B168	331652	1652	1652	1652	PROCESS	TT00	oracle	1 UNKNOWN	oracle@trionychidae (TT00)	(null)	/opt/app/ls/oracle/diag/rdbms/oraetud/oraetud/trace/oraetud_tt00_1652.trc	1	(n
34 00000000F2A5B390	341655	1655	1655	1655	PROCESS	SMCO	oracle	1 UNKNOWN	oracle@trionychidae (SMCO)	(null)	/opt/app/ls/oracle/diag/rdbms/oraetud/oraetud/trace/oraetud_smco_1655.trc	1	(n
35 00000000F2A5C7B8	351658	1658	1658	1658	PROCESS	W000	oracle	68 UNKNOWN	oracle@trionychidae (W000)	(null)	/opt/app/ls/oracle/diag/rdbms/oraetud/oraetud/trace/oraetud_w000_1658.trc	1	(n

L'ensemble des processus en arrière-plan sont dans la table V\$BGPROCESS. On retrouve leur nom dans la colonne NAME.

SELECT * FROM V\$BGPROCESS;

PADDR	P	SERIAL#	NAME	DESCRIPTION	ERROR	CON_ID
1 00000000F2A57990	1	PMON	Process Cleanup		0	0
2 00000000F2A46DE0	1	VKTM	Virtual Keeper of Time process		0	0
3 00000000F2A47908	1	GEN0	generic0		0	0
4 00000000F2A49A80	1	DIAG	diagnosibility process		0	0
5 00	0	OFSD	Oracle File Server BG		0	0
6 00000000F2A4A5A8	1	DBRM	Database Resource Manager		0	0
7 00000000F2A4AB00	1	VKRM	Virtual scheduler for Resource Manager		0	0
8 00	0	ORSMN	Remote Slave Monitor		0	0
9 00	0	OPING	interconnect latency measurement		0	0
10 00	0	OFMON	File Mapping Monitor Process		0	0
11 00000000F2A462B8	1	PSPO	process spawner 0		0	0
12 00	0	ORMON	rolling migration monitor		0	0
13 00	0	OACMS	Atomic ControlFile to Memory Server		0	0
14 00	0	ODSKM	slave DISKMon process		0	0
15 00	0	IPICO	IPC Service 0		0	0
16 00	0	ORPOP	instant restore repopulation daemon		0	0
17 00000000F2A4B8F8	1	DIAG	diagnosibility process 0		0	0
18 00	0	DIAG	diagnosibility process 1		0	0
19 00	0	DIAG	diagnosibility process 2		0	0
20 00	0	DIAG	diagnosibility process 3		0	0
21 00	0	DIAG	diagnosibility process 4		0	0
22 00	0	DIAG	diagnosibility process 5		0	0
23 00	0	DIAG	diagnosibility process 6		0	0
24 00	0	DIAG	diagnosibility process 7		0	0
25 00	0	DIAG	diagnosibility process 8		0	0
26 00	0	DIAG	diagnosibility process 9		0	0
27 00	0	OLMON	global enqueue service monitor		0	0
28 00	0	OLMD0	global enqueue service daemon 0		0	0
29 00	0	OLMD1	global enqueue service daemon 1		0	0
30 00	0	OLMD2	global enqueue service daemon 2		0	0
31 00	0	OLMD3	global enqueue service daemon 3		0	0
32 00	0	OLMD4	global enqueue service daemon 4		0	0
33 00	0	OLMD5	global enqueue service daemon 5		0	0
34 00	0	OLMD6	global enqueue service daemon 6		0	0