



Universidade do Minho - Escola de Engenharia
Administração e Exploração de Base de Dados

Ficha nº7

Aluno(a) :
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Versão 1.0
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1 Pergunta 1

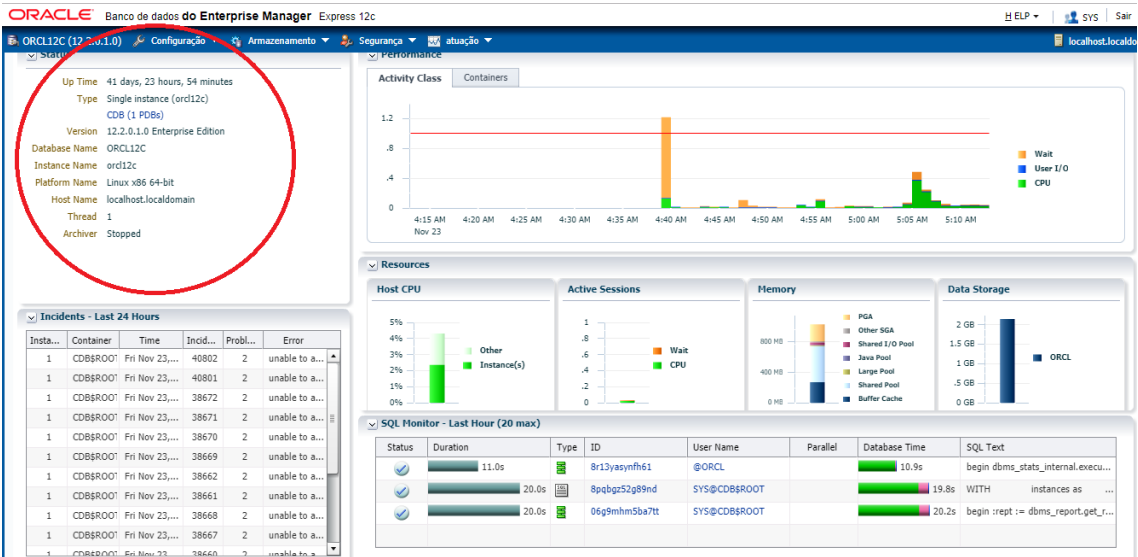


Figura 1

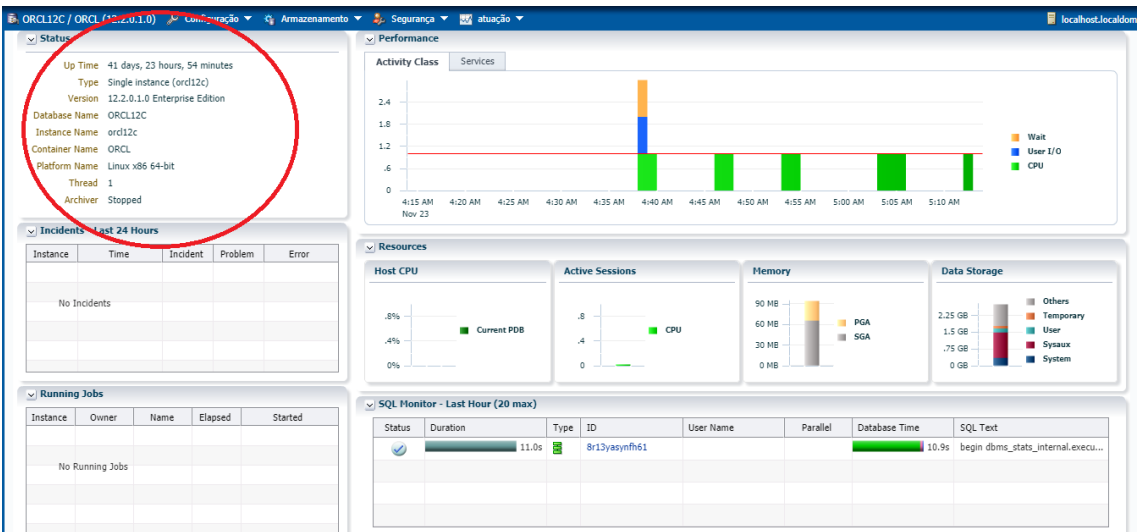


Figura 2

2 Pergunta 2

Sim, 3 para o 5501 (root) e 1 para 5502. Visível nas imagens anteriores.

3 Pergunta 3

Tablespace	1,024	17	180	180KB
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Figura 3: Tamanho de cada tablespace - EM (root).

Name	Size	Free Space	Used (%)	Auto ...	Maxim...	Status	Type	Group Name	Auto ...	Directory
AEDB_TABLES	100MB	99MB	1		100MB					/u01/app/oracle/product/12.2/db_1/dbs/
AEDB_TEMP	50MB	50MB			Unlimited					/u01/app/oracle/product/12.2/db_1/dbs/
APEX_1941389856444596	8MB	896KB	88.4		25MB					/u01/app/oracle/oradata/ord12c/ord/
SYSAUX	1GB	58MB	95		Unlimited					/u01/app/oracle/oradata/ord12c/ord/
SYSTEM	350MB	9MB	97.4		Unlimited					/u01/app/oracle/oradata/ord12c/ord/
TEMP	64MB	64MB			Unlimited					/u01/app/oracle/oradata/ord12c/ord/
UNDOTBS1	380MB	206MB	45.9		Unlimited					/u01/app/oracle/oradata/ord12c/ord/
USERS	76MB	3MB	96.1		Unlimited					/u01/app/oracle/oradata/ord12c/ord/

Figura 4: Tamanho de cada tablespace - EM (pluggable).

	Tablespace Name	Allocated (MB)	Free (MB)	Used (MB)	% Free	% Used	Max. Bytes (MB)
1	USERS	5	4	1	80	20	32768
2	UNDOTBS2	50	35	15	69	31	32768
3	TEMP	129	129	0	100	0	32768
4	SYSAUX	550	31	519	6	94	32768
5	SYSTEM	800	2	798	0	100	32768

Figura 5: Tamanho de cada tablespace - SQLDeveloper (root).

	Tablespace Name	Allocated (MB)	Free (MB)	Used (MB)	% Free	% Used	Max. Bytes (MB)
1	APEX_1941389856444596	8	1	7	12	88	25
2	AEDB_TEMP	50	50	0	100	0	32768
3	TEMP	64	64	0	100	0	32768
4	USERS	76	3	73	4	96	32768
5	AEDB_TABLES	100	99	1	99	1	100
6	SYSTEM	350	9	341	3	97	32768
7	UNDOTBS1	380	206	174	54	46	32768
8	SYSAUX	1160	58	1102	5	95	32768

Figura 6: Tamanho de cada tablespace - SQLDeveloper (pluggable).

4 Pergunta 4

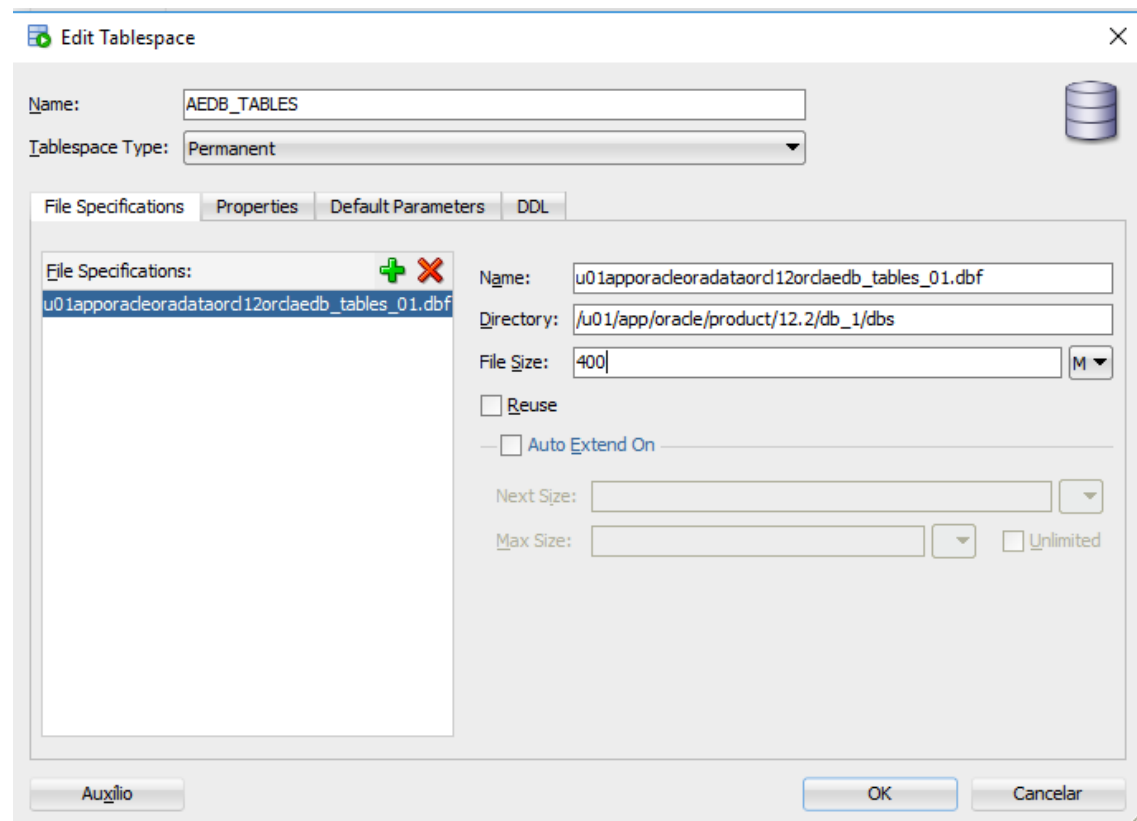


Figura 7: Edição do tamanho da tablespace AEDB_TABLESPACES criada na aula anterior.

Tablespaces							
Space Files Free Space							
Actions...							
Tablespace Name	Allocated (MB)	Free (MB)	Used (MB)	% Free	% Used	Max. Bytes (MB)	
1 APEX_1941389856444596	8	1	7	12	88	25	
2 AEDB_TEMP	50	50	0	100	0	32768	
3 TEMP	64	64	0	100	0	32768	
4 USERS	76	3	73	4	96	32768	
5 SYSTEM	340	2	338	0	100	32768	
6 UNDOTBS1	380	162	218	43	57	32768	
7 AEDB_TABLES	400	399	1	100	0	400	
8 SYSAUX	1160	64	1097	5	95	32768	

Figura 8: Alteração bem efetuada.

5 Pergunta 5

Tablespaces
Container: ORCL

Actions View Create Drop Add Datafile

Name	Size	Free Space	Used (%)	Auto E...	Maximu...	Status
AEDB_TABLES	400MB	399MB	.3		400MB	
u01apporaclearadataorcl12orcladb_tab...	400MB	399MB	.3		400MB	
AEDB_TEMP	50MB	50MB		✓	Unlimited	
APEX_1941389856444596	8MB	896KB	88.4	✓	25MB	
SYS_AUX	1GB	64MB	94.5	✓	Unlimited	
SYSTEM	340MB	2MB	99.5	✓	Unlimited	
TEMP	64MB	64MB		✓	Unlimited	
UNDOTBS1	380MB	162MB	57.4	✓	Unlimited	
USERS	76MB	3MB				

Resize Datafile u01apporaclearadataorcl12orcladb_tables_01.dbf

Size * 500M

Show SQL OK Cancel

Figura 9: Edição na EM do tablespace da questão anterior.

Tablespaces
Container: ORCL

Actions View Create Drop Add Datafile

Name	Size	Free Space	Used (%)	Auto E...	Maximu...	Status
AEDB_TABLES	500MB	499MB	.2		500MB	
AEDB_TEMP	50MB	50MB		✓	Unlimited	
APEX_1941389856444596	8MB	896KB	88.4	✓	25MB	
SYS_AUX	1GB	64MB	94.5	✓	Unlimited	
SYSTEM	340MB	2MB	99.5	✓	Unlimited	
TEMP	64MB	64MB		✓	Unlimited	
UNDOTBS1	380MB	162MB	57.4	✓	Unlimited	
USERS	76MB	3MB	96.2	✓	Unlimited	

Figura 10: Operação concluída com sucesso.

6 Pergunta 6

Actions...							
User Name	Account Status	Expiration Date	Default Tablespace	Temporary Tablespace	Profile	Created	User Type
1 ANONYMOUS	OPEN	(null)	SYSAUX	TEMP	DEFAULT	17.01.26	LOCAL
2 APEX_INSTANCE_ADMIN_USER	EXPIRED	17.06.12	USERS	TEMP	DEFAULT	17.06.12	LOCAL
3 APEX_LISTENER	OPEN	(null)	USERS	TEMP	DEFAULT	17.06.12	LOCAL
4 APEX_PUBLIC_USER	OPEN	(null)	USERS	TEMP	DEFAULT	17.06.12	LOCAL
5 APEX_REST_PUBLIC_USER	OPEN	(null)	USERS	TEMP	DEFAULT	17.06.12	LOCAL
6 APEX_050100	OPEN	(null)	SYSAUX	TEMP	DEFAULT	17.06.12	LOCAL
7 APPQOSSYS	EXPIRED & LOCKED	17.01.26	SYSAUX	TEMP	DEFAULT	17.01.26	LOCAL
8 AUDSYS	EXPIRED & LOCKED	17.01.26	USERS	TEMP	DEFAULT	17.01.26	LOCAL
9 CTXSYS	EXPIRED & LOCKED	17.06.12	SYSAUX	TEMP	DEFAULT	17.01.26	LOCAL
10 DBJSON	LOCKED	(null)	USERS	TEMP	DEFAULT	17.06.12	LOCAL
11 DBSFUSER	EXPIRED & LOCKED	17.01.26	SYSAUX	TEMP	DEFAULT	17.01.26	LOCAL
12 DBSNMP	EXPIRED & LOCKED	17.01.26	SYSAUX	TEMP	DEFAULT	17.01.26	LOCAL
13 DIANA	OPEN	(null)	AEBD_TABLES	AEBD_TEMP	DEFAULT	18.11.09	LOCAL
14 DIP	EXPIRED & LOCKED	17.01.26	USERS	TEMP	DEFAULT	17.01.26	LOCAL
15 DVF	EXPIRED & LOCKED	17.01.26	SYSAUX	TEMP	DEFAULT	17.01.26	LOCAL
16 DVSYS	EXPIRED & LOCKED	17.01.26	SYSAUX	TEMP	DEFAULT	17.01.26	LOCAL
17 FLOWS_FILES	OPEN	(null)	SYSAUX	TEMP	DEFAULT	17.06.12	LOCAL
18 GGSYS	EXPIRED & LOCKED	17.01.26	SYSAUX	TEMP	DEFAULT	17.01.26	LOCAL
19 GSMADMIN_INTERNAL	EXPIRED & LOCKED	17.01.26	SYSAUX	TEMP	DEFAULT	17.01.26	LOCAL
20 GSMCATUSER	EXPIRED & LOCKED	17.01.26	USERS	TEMP	DEFAULT	17.01.26	LOCAL
21 GSMUSER	EXPIRED & LOCKED	17.01.26	USERS	TEMP	DEFAULT	17.01.26	LOCAL
22 HR	OPEN	(null)	USERS	TEMP	DEFAULT	17.06.12	LOCAL
23 HRREST	OPEN	(null)	USERS	TEMP	DEFAULT	17.06.12	LOCAL
24 LBACSYS	EXPIRED & LOCKED	17.01.26	SYSTEM	TEMP	DEFAULT	17.01.26	LOCAL
25 MDDATA	EXPIRED & LOCKED	17.01.26	USERS	TEMP	DEFAULT	17.01.26	LOCAL
26 MDSYS	EXPIRED & LOCKED	17.01.26	SYSAUX	TEMP	DEFAULT	17.01.26	LOCAL
27 MVDRA	OPEN	(null)	USERS	TEMP	DEFAULT	17.06.12	LOCAL

Figura 11: users da base de dados utilizando o SQLDeveloper.

7 Pergunta 7

Alteração escolhida para efetuar: conceder papel provisioner a utilizador.

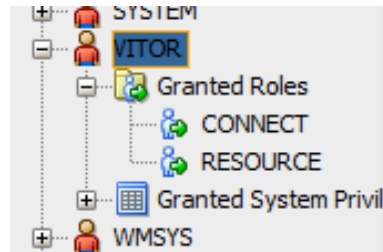


Figura 12: Verificar user.

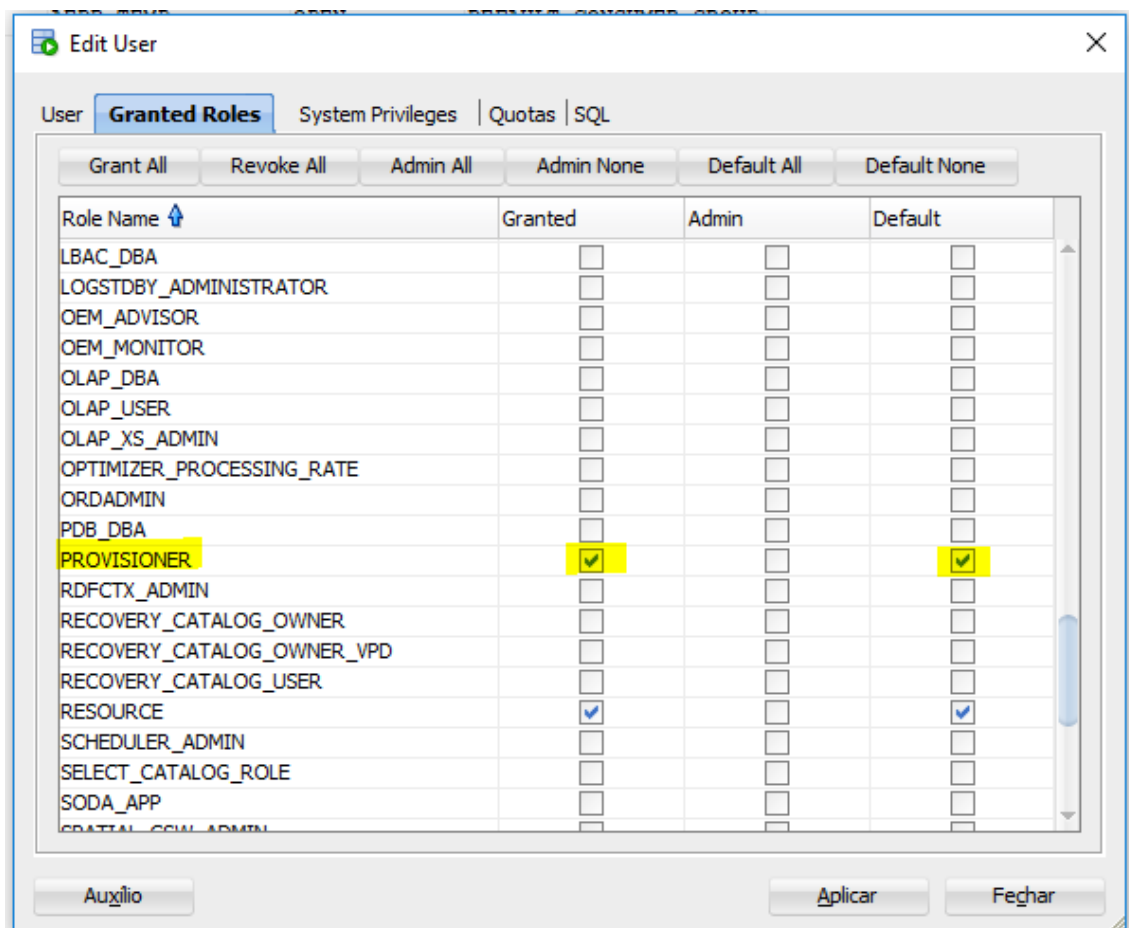


Figura 13: Conceder papel de PROVISIONER

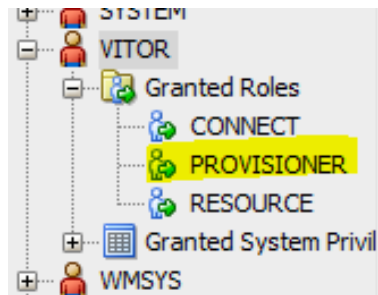


Figura 14: Alteração efetuada.

8 Pergunta 8

 A screenshot of the 'Create User' dialog box. The 'User' tab is selected. The 'User Name' field contains 'NovoTeste'. The 'New Password' and 'Confirm Password' fields are masked with dots. There are four unchecked checkboxes: 'Password Expired (user must change next login)', 'Operating System User', 'Account is Locked', and 'Edition Enabled'. The 'Default Tablespace' dropdown is set to 'AEDB_TABLES' and the 'Temporary Tablespace' dropdown is set to 'AEDB_TEMP'. At the bottom, there are three buttons: 'Auxílio', 'Aplicar', and 'Fechar'.

Figura 15: Novo user.

9 Pergunta 9

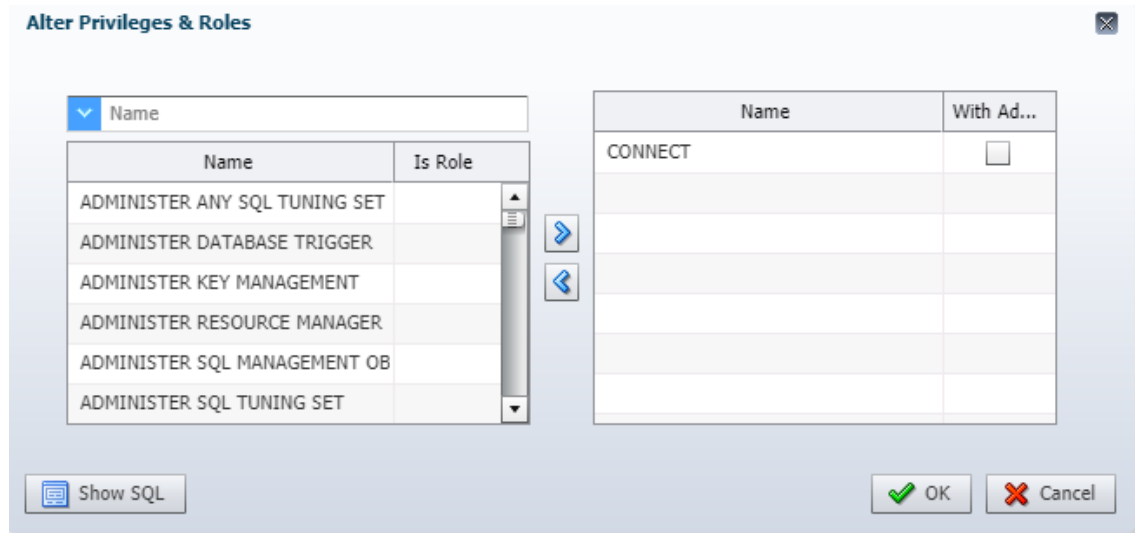


Figura 16

10 Pergunta 10

Edit User

User | Granted Roles | System Privileges | **Quotas** | SQL

Tablespace	Unlimited	Quota	Units
AEDB_TABLES	<input type="checkbox"/>	100M	
APEX_1941389856444596	<input type="checkbox"/>		
SYSAUX	<input type="checkbox"/>		
SYSTEM	<input type="checkbox"/>		
USERS	<input type="checkbox"/>		

Auxilio Aplicar Fechar

Figura 17

11 Pergunta 11

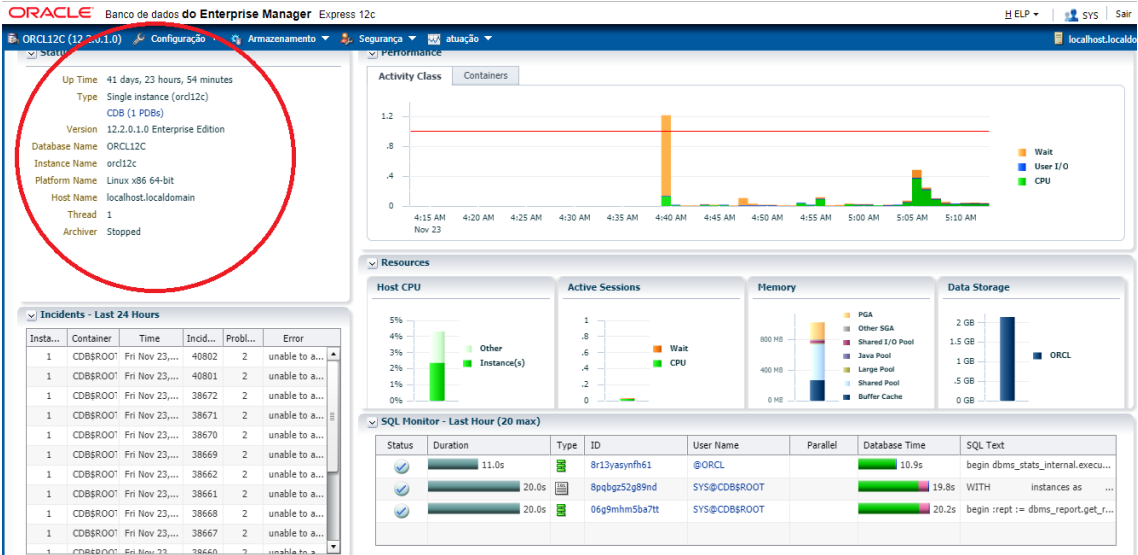


Figura 18

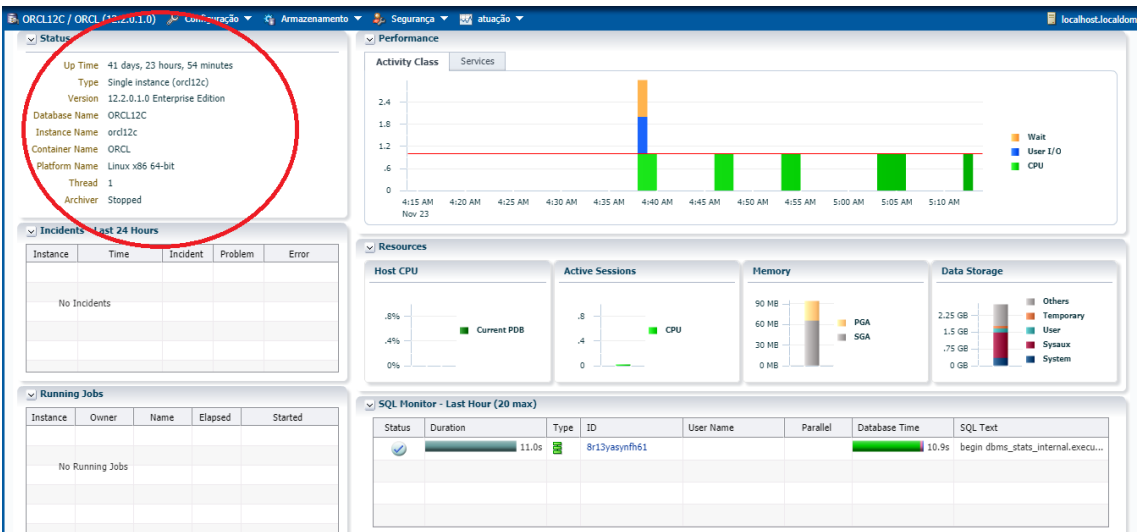


Figura 19

12 Pergunta 12

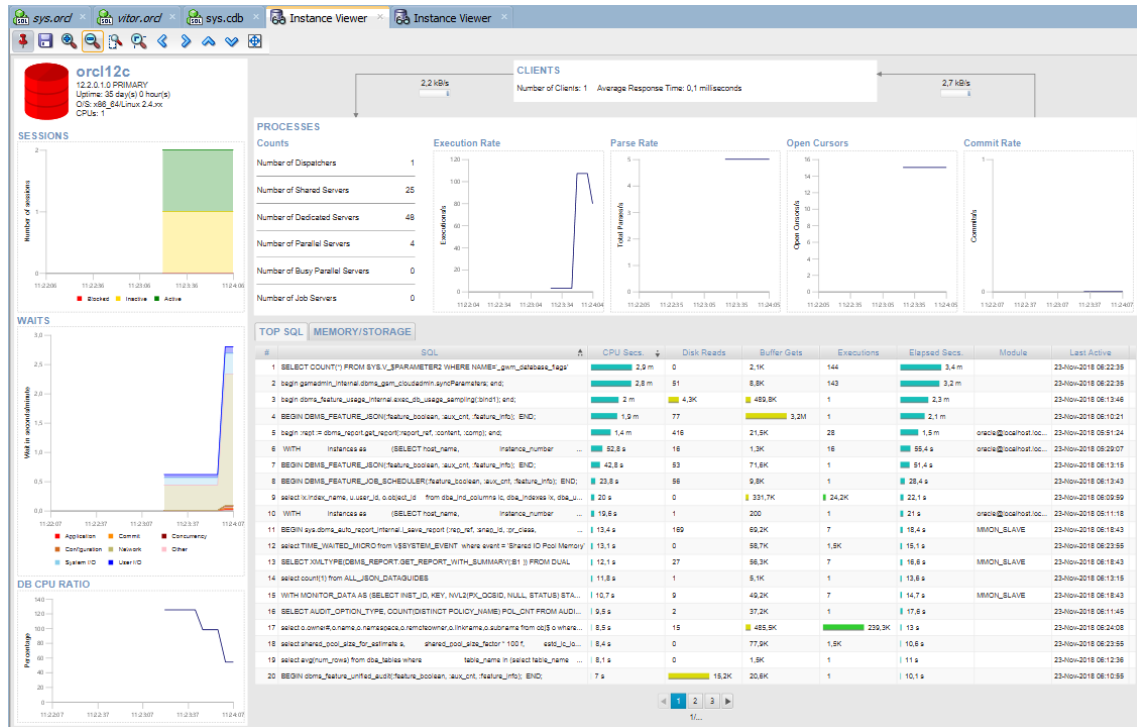


Figura 20: BD sistema.

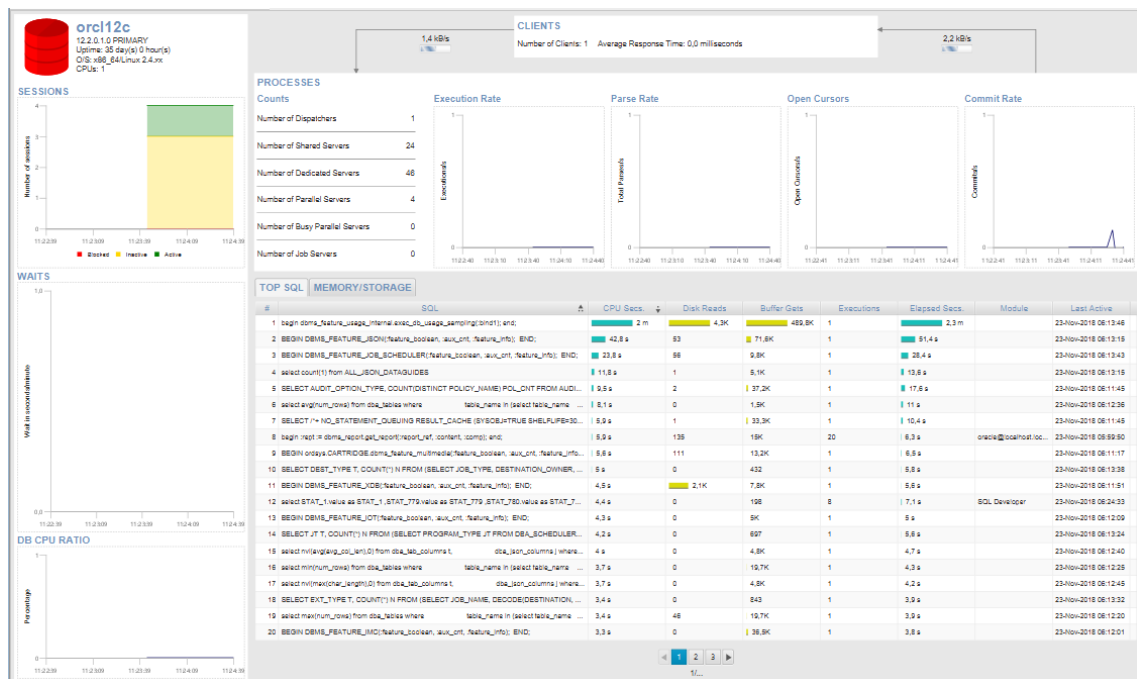


Figura 21: BD plugable.

13 Pergunta 13

Esta pergunta não necessita de qualquer análise.

14 Pergunta 14

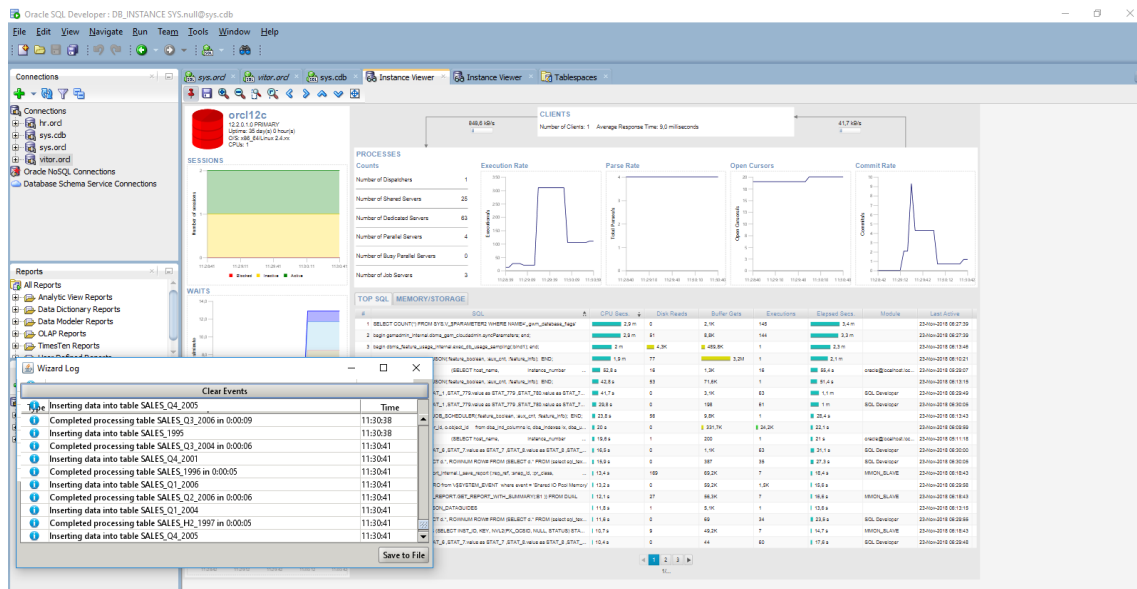


Figura 22

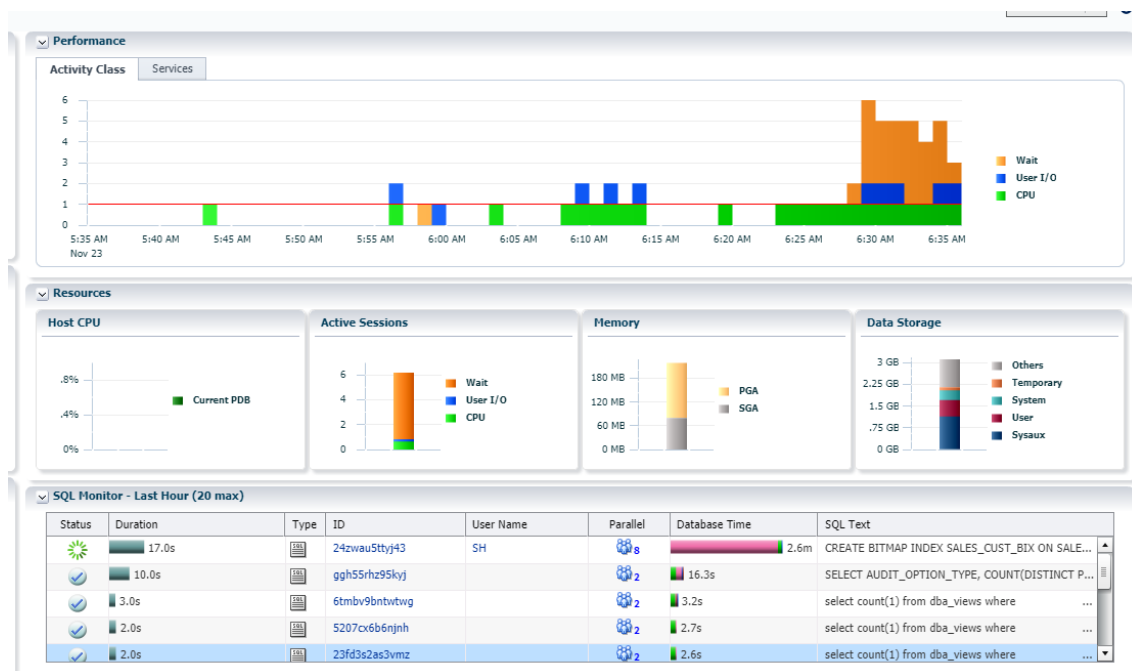


Figura 23: EM

15 Pergunta 15

Verifica-se a queda dos indicadores, no final da execução do .bat do ponto 13. O mesmo se observa, naturalmente, na EM.

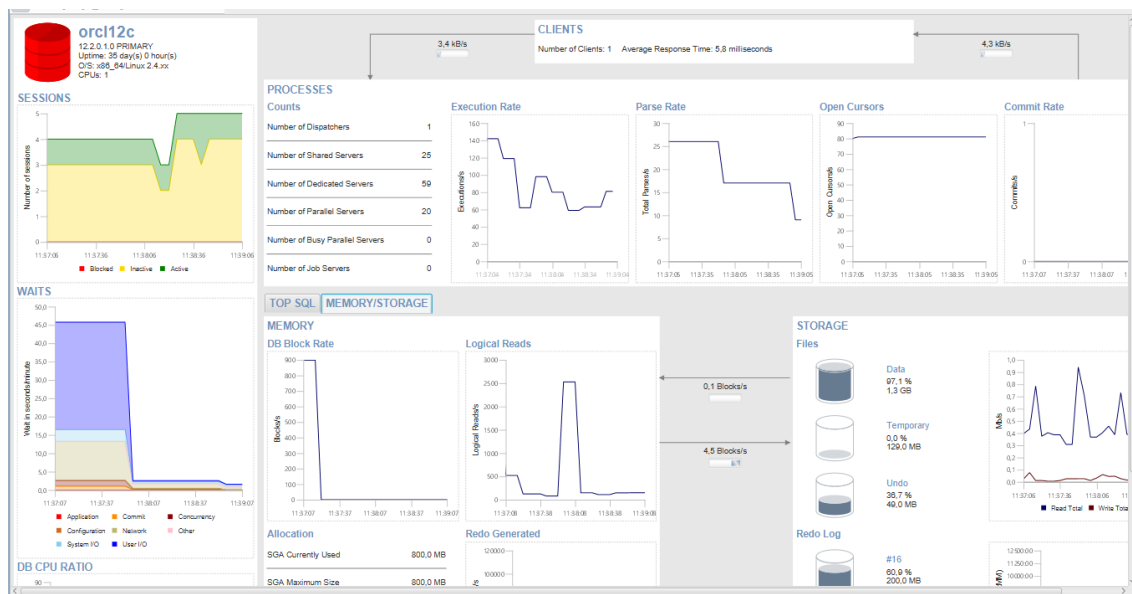


Figura 24: estado geral da BD após processo anterior (passo 13).

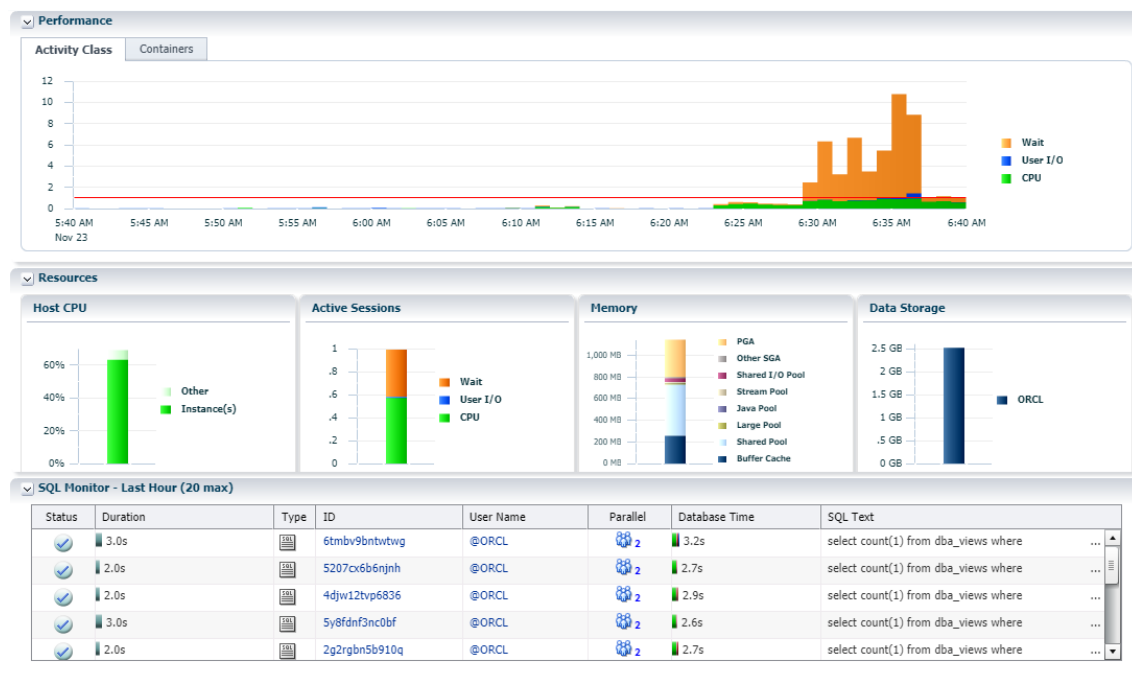


Figura 25: estado geral da BD após processo anterior (passo 13) - EM.

16 Pergunta 16

Iniciando o software de workload.

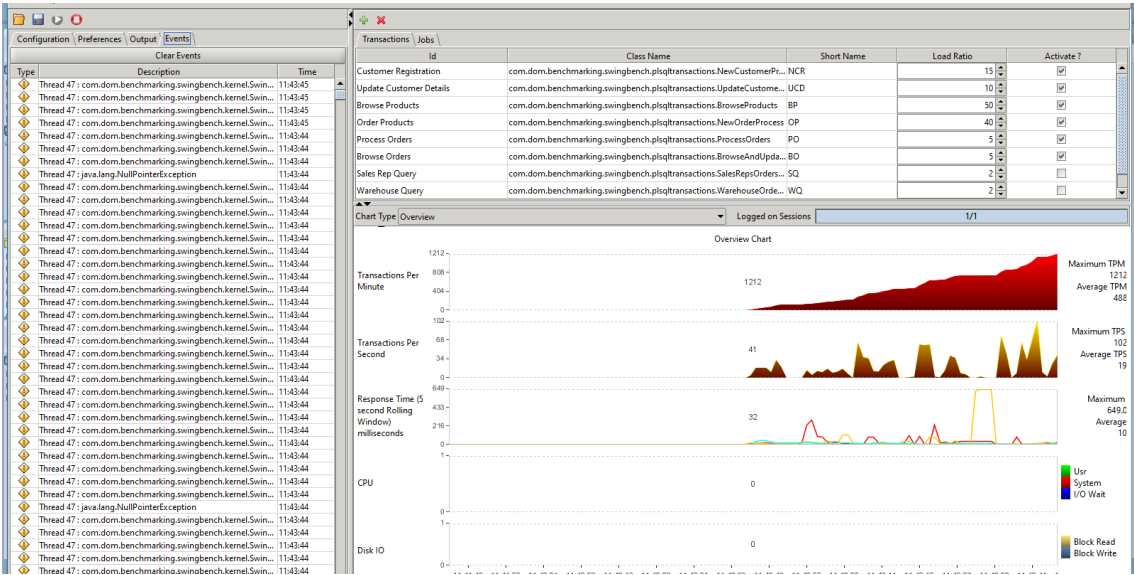


Figura 26

Consequente novo aumento de workload.

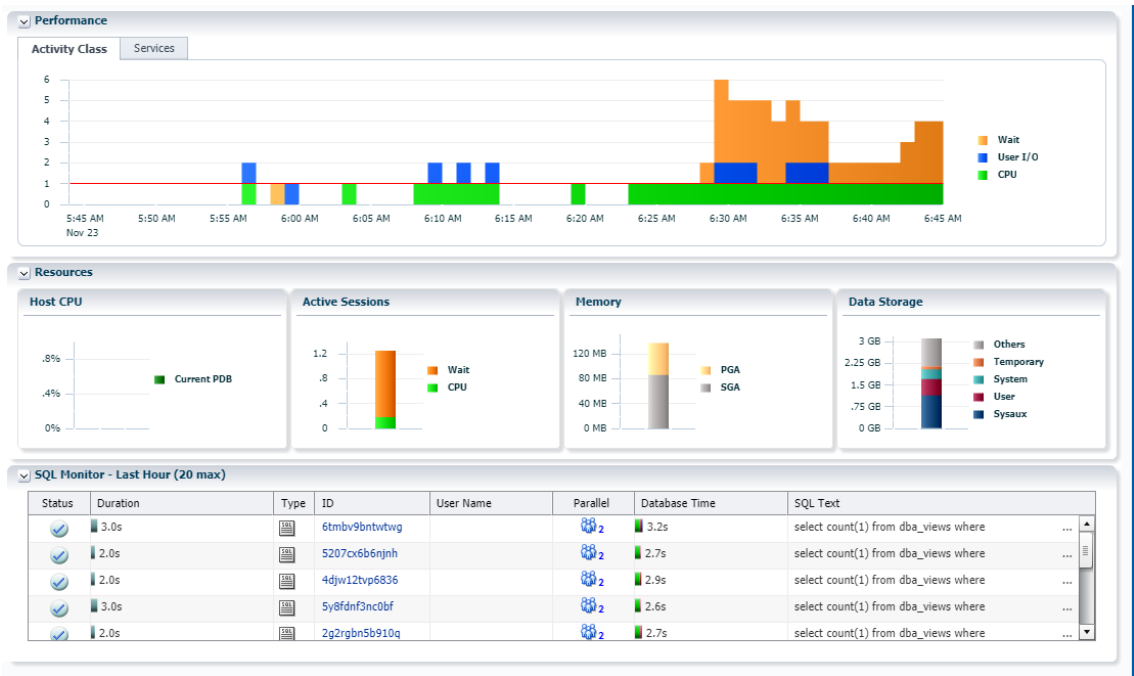


Figura 27: I

17 Pergunta 17

Com 4 utilizadores o número de TPM aumenta quase linearmente.

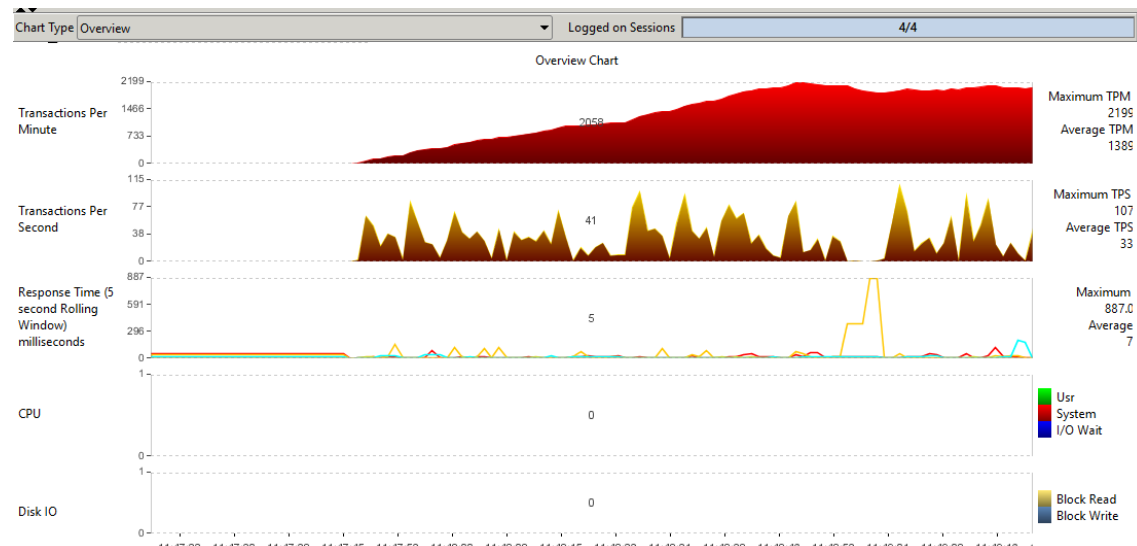


Figura 28

O número de waits sobe mas não linearmente, por exemplo.

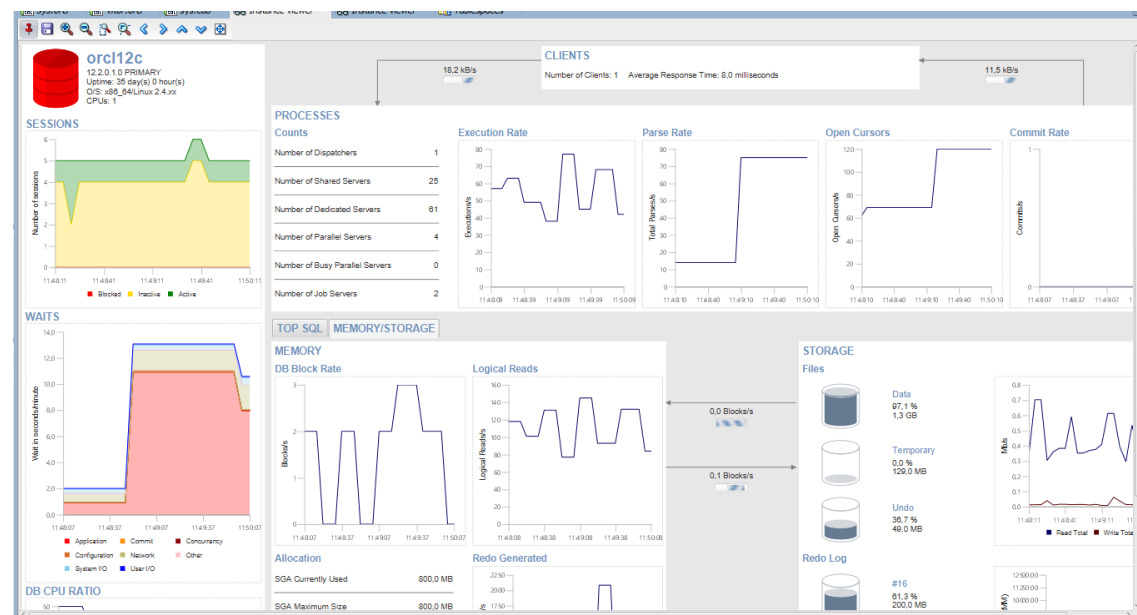


Figura 29

Alterações em sessões, memória ocupada, etc.

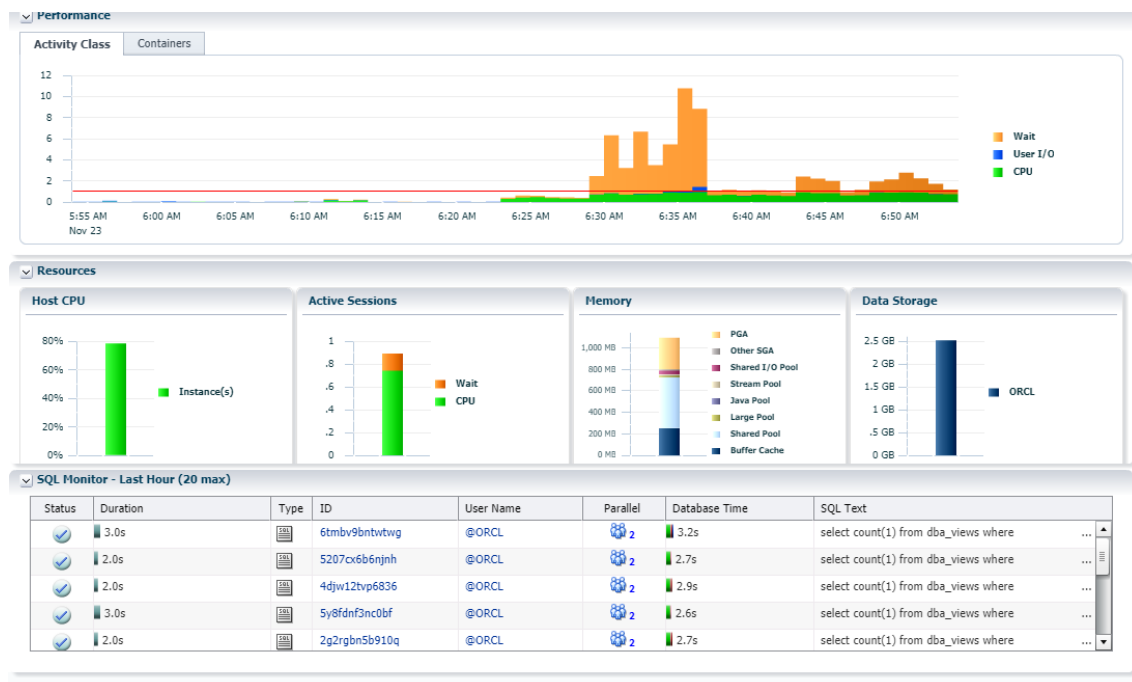


Figura 30

18 Pergunta 18

Já analisado ao longo da questão 17.