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Exam : OCM

Title : Oracle Certified Master

Version : DEMO

Section 6: database performance management

Instance Configuration

1. Configure your database to record checkpoints in the alert1.log file.
2. Ensure all user trace files are placed in the USER_DUMP_DEST location.

First show parameter alert check log_checkpoints_to_alert value if true.

Alter system set log_checkpoints_to_alert=true;

Show parameter user_dump

check the path if it exist.

```
SQL> show parameter aler
NAME                                TYPE          VALUE
-----
log_checkpoints_to_alert            boolean       FALSE
SQL> alter system set log_checkpoints_to_alert=true;
System altered.
SQL> show parameter user_dump
NAME                                TYPE          VALUE
-----
user_dump_dest                      string        /app/oracle/admin/stbdb/udump
SQL>
```

Set Up and Configure Resource Manager

1. Set up and configure Resource Manager using the following specifications:
 - 1.1 Assign the user SH as the resource administrator.
 - 1.2 Create two resource manager consumer groups. OLTP and DSS. (Use comments with each to denote what the objects will be used for.)
 - 1.3 Create a plan named WEEKDAYS with the following directives only :
 - 1.3.1 For OLTP group, we cannot allow more than 20 active sessions. If the 21st user attempts and activity, the request should be aborted if the wait exceeds 60 seconds.
 - 1.3.2 The maximum number of active sessions for the DSS group to 5.If more than 5 sessions are requested, then the request should abort at 120 seconds.
 - 1.3.3 The maximum execution time for a query for a session in the OLTP group should be set to 5 seconds. If the query is estimated to take longer than 5 seconds the session should be automatically switched to the DSS group.
 - 1.3.4 the maximum amount of undo that the OLTP group can use should be set to 200MB.
 - 1.3.5 Set CPU rations for OLTP, DSS and OTHER_GROUPS as 50,30 and 20 respectively.
 - 1.3.6 DSS group has parallel degree limit of 20.

1.3.7 Make sure that and idle OLTP sessions cannot block a DML statement for more than 60 seconds.

1.4 Assign the default consumer group for the OLTP_USER to OLTP group.

1.5 Assign the default consumer group for the SH user to DSS group.

1.6 Specify that the WEEKDAYS plan be used by the instance as the default.

This part mainly test Oracle Database Resource Manager

Refer to chapter 24 of Database Administrator's Guide.

This question mainly let us create a Resource Plan and two consumer groups.

Set related parameters according to the question requirements.

Related script as following:

```
BEGIN
dbms_resource_manager.clear_pending_area();
dbms_resource_manager.create_pending_area();
dbms_resource_manager.create_plan( 'WEEKDAYS', '');
dbms_resource_manager.create_plan_directive(
  plan => 'WEEKDAYS',
  group_or_subplan => 'DSS',
  comment => '',
```