Homework 4

**Complete the following activities in your assigned Windows server in the database that you created for the previous homework assignment. You will be required to complete many commands from a command prompt and from within RMAN. Size the command prompt window vertically to display the required output. Other commands must be completed using SQL Tools.**

**NOTE: When taking screenshots, please make sure that your picture is of the information that I need to see, and that it is clear enough that I can read it. Small text in a screenshot of your entire desktop is impossible to read – and therefore incorrect. Refer to Homework 2 for examples.**

1. Connect to the database on your assigned server using SQL Tools.
2. Create a directory on your hard drive named c:\app\OracleOwner\Backup and create a database directory using SQL Tools that points to that location. **Submit: screen shot showing the directory on the hard drive.**
3. Create a table in your database account using your username within the following command:

CREATE TABLE <your username>\_test AS SELECT \* FROM DBA\_PROCEDURES;

**Submit: screen shot of results from SELECT \* FROM USER\_TABLES; that shows your new table**

1. From a command prompt, create a logical backup of just the table created in step #3 into the directory created in step #2. Name the dump file <your username>\_test\_exp.dmp. **Submit: screen shot of the command prompt window showing the command and its output, and screen shot of the hard drive directory with the dump file in it.**
2. In SQL Tools, drop the table created in step #3. **Submit: screen shot of the drop command and its results.**
3. From a command prompt, recreate the table from step #3 using data pump import. Submit: screen shot of the command prompt showing the command and its output.
4. In SQL Tools, display the contents of the newly restored table. **Submit: screen shot of the command and the first several rows from the table.**
5. In SQL Tools, run the code in the Homework4 Script file in D2L. This will show you the utilization of the fast\_recovery\_area. **Submit: screen shot of the results.**
6. Connect to the database on your assigned server using RMAN.
7. Show the current configuration settings for the RMAN environment. **Submit: screen shot of command window showing the settings.**
8. Change the current configuration settings to:
   1. Automatically backup the control file
   2. Compress the backup into compressed backup sets
   3. Change the retention policy to include a 8-day window
9. Show the current configuration settings for the RMAN environment that includes your changes. **Submit: screen shot of the command window showing the settings.**
10. In RMAN, determine which backup files and archive logs are missing or obsolete. Once identified, delete all of the expired archivelogs and backup pieces. **Submit: screen shots of both commands.**
11. In SQL Tools, run the code in the Homework4 Script file again. Compare this result with the result received in Step 8. **Submit: What is the spaced used now? In your own words, explain the difference between the two results. Why did RMAN think that there were so many files?**

**FROM THIS POINT FORWARD, DO NOT DELETE ANY OF YOUR ARCHIVE LOG FILES (the ones you have been since HMWK 2)**

1. Create a full backup of your database as an image copy**.** Include the archive logs. **If you have issues, 10G might be needed.****Submit: screenshot showing the command and its output.**
2. Validate the integrity of your database. **Submit: screenshot showing the command and its output.**
3. List a summary of the backup files in RMAN. **Submit: screen shot showing the summary.**
4. Locate the image copies on the hard drive. S**ubmit: screen shot showing the image copy files on the hard drive.**
5. Create a level 0 incremental backup to a backup set. **Submit: screen shot of the command and its output.**
6. In SQL Tools, create another table, similar to step #3, but this time the table name should be <your username>\_test2. **Submit: screen shot of the results of SELECT \* FROM USER\_TABLES; showing this new table**
7. Create a level 1 differential incremental backup. **Submit: screen shot of the command and its output.**
8. List a summary of the backup files in RMAN. **Submit: screen shot showing the summary.**
9. Locate the backup set files on the hard drive. **Submit: screen shot showing the backup files on the hard drive.**
10. Validate the integrity of your restoration. **Submit: screenshot showing the command and its output.**
11. Create a recovery file with a size of 12 GB and set the destination to

C:\app\OracleOwner\fast\_recovery\_area\<your SID>.

1. Configure your database for Flashback. **Submit: screenshot showing that flashback is on.**
   1. Set the “recovery\_file” parameters
   2. Set the retention target to 60
   3. Restart your database
   4. Verify that Flashback is enabled
2. Create a flashback restore point and name it your SID and the date. **Example: sb6790\_12252017**

**Submit: screenshot showing that the restore point is created.**

**Submission Requirements:**

Submit screen shots described above in a single MS Word document. Include your name and server IP address at the beginning of the first page. Number your screen shots with the questions numbers. If you received an answer from a fellow student in the course’s Discussions, explain why you were unable to find the answer without this assistance and detail why the answer you were given works to address that particular problem.