Lab Section or Time: Monday 6:00 PM								
Student ID#:	040991363							
Student Name:	Abdullah Zeki Ilgun (Apo)							

NOTE:

The test is 90 minutes duration.

- No talking.
- Each student will use their own laptop computer, with Oracle, MongoDB, and Neo4j installed as per the laboratory assignments.
- Each student has a personalized version of the test, available online in Brightspace under "Lab Exam Quiz" which <u>must be handed-in online to record your set of required tasks</u>.
- There are a sequence of 20 required tasks, with screen shots or short answer responses required to be provided using the submission document provided on BrightSpace (under Content > Lab Exam). You must show your work (using screen shots) for each of the required tasks.
- Submit your submission document through BrightSpace. This
 must be done during the allotted time period. <u>Manage your</u>
 time carefully.
- Access to the Internet, including the use of Oracle online documentation, using the Google search engine, and access to online resources, <u>IS PERMITTED</u>.
- Collaboration with other students (or anyone else) through any means **IS NOT PERMITTED**.

Submission for Requirements: (0.5 points each)

```
1.
File Home Share View
 Name
                                                                                                 Size
  Quick access
                               addnode
                                                              2021-05-12 10:19 PM File folder
                                                              2021-05-12 10:19 PM
                          admin
apex
ASP.NET
                                                                                  File folder
   Downloads
                                                               2021-05-12 10:19 PM
                                                                                  File folder
   Documents
                                                               2021-05-12 10:18 PM
                                                                                  File folder
   Pictures
                          * assistants
                                                               2021-05-12 10:18 PM
                                                                                  File folder
   Algonquin
                          ≠ ■ BIN
                                                               2021-05-12 10:20 PM
                                                                                  File folder
   Cover Letters
                               1 ccr
                                                               2021-05-12 10:19 PM
                                                                                  File folder
   Ilgun_Abdullahzeki_Rivera_Elaiza
cdata
                                                                2021-05-12 10:19 PM
                                                                                  File folder
                                cfgtoollogs
                                                               2021-05-12 10:38 PM
                                                                                  File folder
                               clone
                                                                2021-05-12 10:19 PM
                                                                                  File folder
   Scripto
                               crs
                                                                2021-05-12 10:18 PM
                                                                                  File folder
  OneDrive
                               CSS
                                                                2021-05-12 10:19 PM
                                                                                  File folder
                               ctx
                                                                2021-05-12 10:19 PM
                                                                                  File folder
                               ■ cv
                                                                2021-05-12 10:18 PM
                                                                                  File folder
   3D Objects
                               database
                                                               2021-06-02 7:56 PM
                                                                                  File folder
   Desktop
                               dbs
                                                                2021-05-12 10:18 PM
                                                                                  File folder
                               dc_ocm
                                                               2021-05-12 10:19 PM
   Downloads
                               deinstall
                                                                2021-05-12 10:19 PM
   Music
                               demo
                                                               2021-05-12 10:18 PM
   Pictures
                                diagnostics
                                                                2021-05-12 10:18 PM
   Videos
                                dmu
                                                                2021-05-12 10:18 PM
CS (C:)
                                                                2021-05-12 10:19 PM
                                                                2021-05-12 10:18 PM
                                                                2021-05-12 10:21 PM
                                                                2021-05-12 10:18 PM
                                                                2021-05-12 10:19 PM
                                jdk
                                                                2021-05-12 10:19 PM
                                II jlib
                                                                2021-05-12 10:19 PM
                                                                                  File folder
```

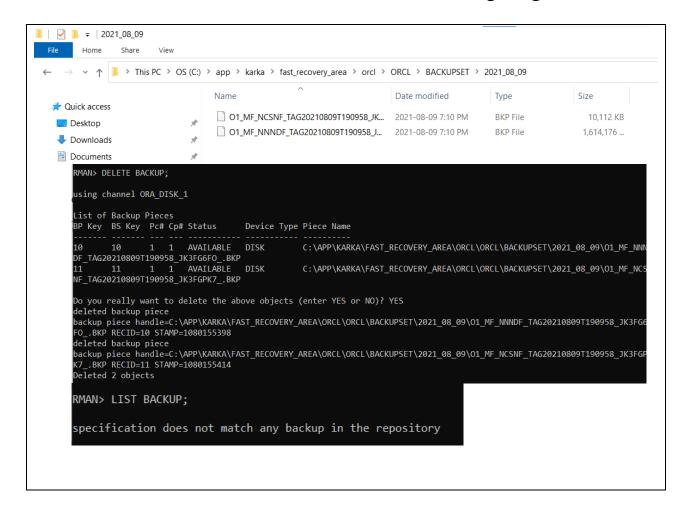
2.

SQL> DESC SCOTT.DEPT; Name	Null?	Туре
DEPTNO DNAME LOC	NOT NULL	NUMBER(2) VARCHAR2(14) VARCHAR2(13)
SQL> SELECT COUNT(*) FROM SCOTT.EMP;		
COUNT(*)		
14		

4.

SQL> SELECT	T V\$TABLESPAC	E.NAME, V\$DATAFILE	NAME FROM V\$DATAFIL	E JOIN V\$TABLESPACE (N V\$DATAFILE.TS#	= V\$TABLESPACE.TS# WHERE	V\$TABLESPACE.NAME = 'TEMP';
NAME							
NAME							
TEMP C:\APP\KAR	KA\ORADATA\OR	CL\TEMP01.DBF					

```
Administrator: Command Prompt - RMAN TARGET SYSBACKUP NOCATALOG;
                                                                                                                                          \times
 MAN> BACKUP DATABASE;
Starting backup at 09-AUG-21
using channel ORA_DISK_1
channel ORA_DISK_1: starting full datafile backup set
channel ORA_DISK_1: specifying datafile(s) in backup set
input datafile file number=00003 name=C:\APP\KARKA\ORADATA\ORCL\SYSAUX01.DBF
input datafile file number=00001 name=C:\APP\KARKA\ORADATA\ORCL\SYSTEM01.DBF
input datafile file number=00005 name=C:\APP\KARKA\ORADATA\ORCL\UNDOTBS01.DBF
input datafile file number=00006 name=C:\APP\KARKA\ORADATA\ORCL\USERS01.DBF
channel ORA_DISK_1: starting piece 1 at 09-AUG-21 channel ORA_DISK_1: finished piece 1 at 09-AUG-21
piece handle=C:\APP\KARKA\FAST_RECOVERY_AREA\ORCL\ORCL\BACKUPSET\2021_08_09\01_MF_NNNDF_TAG20210809T190958_JK3FG6F0_.BKF
tag=TAG20210809T190958 comment=NONE
channel ORA_DISK_1: backup set complete, elapsed time: 00:00:15 channel ORA_DISK_1: starting full datafile backup set
channel ORA_DISK_1: specifying datafile(s) in backup set including current control file in backup set
including current SPFILE in backup set
channel ORA_DISK_1: starting piece 1 at 09-AUG-21
channel ORA_DISK_1: finished piece 1 at 09-AUG-21
piece handle=C:\APP\KARKA\FAST_RECOVERY_AREA\ORCL\ORCL\BACKUPSET\2021_08_09\01_MF_NCSNF_TAG20210809T190958_JK3FGPK7_.BKF
tag=TAG20210809T190958 comment=NONE
channel ORA_DISK_1: backup set complete, elapsed time: 00:00:01
Finished backup at 09-AUG-21
         Administrator: Command Prompt - RMAN TARGET SYSBACKUP NOCATALOG;
                                                                                                                             MAN> LIST BACKUP;
         List of Backup Sets
         BS Key Type LV Size
                                    Device Type Elapsed Time Completion Time
                                               00:00:07 09-AUG-21
                Full 1.54G DTSK
                BP Key: 10 Status: AVAILABLE Compressed: NO Tag: TAG20210809T190958
Piece Name: C:\APP\KARKA\FAST_RECOVERY_AREA\ORCL\ORCL\BACKUPSET\2021_08_09\01_MF_NNNDF_TAG20210809T190958_JK3FG6
          List of Datafiles in backup set 10
File LV Type Ckp SCN Ckp Time Name
                   Full 6398008 09-AUG-21 C:\APP\KARKA\ORADATA\ORCL\SYSTEM01.DBF
                  Full 6398008
                                   09-AUG-21 C:\APP\KARKA\ORADATA\ORCL\SYSAUX01.DBF
09-AUG-21 C:\APP\KARKA\ORADATA\ORCL\UNDOTBS01.DBF
                  Full 6398008
                   Full 6398008
                                   09-AUG-21 C:\APP\KARKA\ORADATA\ORCL\USERS01.DBF
                   Full 6398008
                                   09-AUG-21 C:\APP\KARKA\ORADATA\ORCL\EXAMPLE01.DBF
         BS Key Type LV Size
                                    Device Type Elapsed Time Completion Time
                 Full 9.86M
                                                00:00:01 09-AUG-21
                BP Key: 11 Status: AVAILABLE Compressed: NO Tag: TAG20210809T190958
Piece Name: C:\APP\KARKA\FAST RECOVERY AREA\ORCL\ORCL\BACKUPSET\2021 08 09\01 MF NCSNF TAG20210809T190958 JK3FGF
```



7.

```
SQL> ALTER USER SCOTT IDENTIFIED BY TIGER;
User altered.
```

```
SQL> SELECT TABLESPACE_NAME, BYTES, MAX_BYTES, (100*(BYTES/MAX_BYTES)) AS PERCENT FROM DBA_TS_QUOTAS;
TABLESPACE NAME
                                    BYTES MAX_BYTES
                                                        PERCENT
SYSAUX
                                  1441792 104857600 1.375
SYSAUX
                                                           0
SYSAUX
                                                              0
                                       0
USERS
                                       0
                                                              0
                                  1572864
10420224
                                                 -1 -157286400
SYSAUX
                                                -1 -1.042E+09
-1 -6553600
-1 0
EXAMPLE
                                 10420224
USERS
                                    65536
SYSAUX
                                       0
8 rows selected.
```

9

```
SQL> CREATE USER LABEXAMABDULLAHZEKI IDENTIFIED BY apoOracle123;
User created.
SQL> GRANT CONNECT TO LABEXAMABDULLAHZEKI;
Grant succeeded.
SQL> CREATE ROLE TESTROLE;
Role created.
SQL> GRANT TESTROLE TO LABEXAMABDULLAHZEKI;
Grant succeeded.
     Enter user-name: SCOTT
     Enter password:
     Last Successful login time: Mon Aug 09 2021 16:04:51 -04:00
     Oracle Database 12c Enterprise Edition Release 12.1.0.2.0 - 64bit Production
     With the Partitioning, OLAP, Advanced Analytics and Real Application Testing options
     SQL> GRANT INSERT ON EMP TO TESTROLE;
     Grant succeeded.
     SQL> GRANT INSERT ON DEPT TO TESTROLE;
     Grant succeeded.
```

10.

```
Copyright (c) 1982, 2014, Oracle. All rights reserved.

Enter user-name: LABEXAMABDULLAHZEKI
Enter password:

Connected to:
Oracle Database 12c Enterprise Edition Release 12.1.0.2.0 - 64bit Production
With the Partitioning, OLAP, Advanced Analytics and Real Application Testing options

SQL> INSERT INTO SCOTT.DEPT VALUES(50, 'A', 'A');

1 row created.
```

11

```
Enter user-name: SYS AS SYSDBA
Enter password:
Connected to:
Oracle Database 12c Enterprise Edition Release 12.1.0.2.0 - 64bit Production
With the Partitioning, OLAP, Advanced Analytics and Real Application Testing options
SQL> ALTER SYSTEM SET UNDO_RETENTION=1200 SCOPE=BOTH;
System altered.
SOL> CREATE PFILE FROM SPFILE;
File created.
SQL> SHOW PARAMETER UNDO RETENTION;
NAME
                                    TYPE
                                              VALUE
undo_retention
                                    integer
                                                1200
SQL> _
```

12

```
SQL> SET TIMING ON;
SQL> CREATE TABLE LAB_USER(NAME VARCHAR(10), LASTNAME VARCHAR(10));
Table created.
Elapsed: 00:00:00.00
SQL> DECLARE
 2 i NUMBER := 1;
     BEGIN
 4
       LOOP
         INSERT INTO LAB_USER
         VALUES ( 'Apo', 'Ilgun');
 7
        Commit;
 8
        i := i+1;
      EXIT WHEN i>15000;
 10
     END LOOP;
11 END;
12 /
PL/SQL procedure successfully completed.
Elapsed: 00:00:00.72
```

14.

```
SQL> CREATE MATERIALIZED VIEW LABEXAM_VIEW AS

2 SELECT EMP.EMPNO, DNAME FROM EMP NATURAL JOIN DEPT WHERE ENAME='SMITH';

Materialized view created.
```

```
SQL> CREATE USER NEWEXAMUSER IDENTIFIED BY NEWTIGER;

User created.

SQL> GRANT PLUSTRACE TO NEWEXAMUSER;

Grant succeeded.
```

```
Enter user-name: NEWEXAMUSER
Enter password:
Last Successful login time: Mon Aug 09 2021 18:25:51 -04:00

Connected to:
Oracle Database 12c Enterprise Edition Release 12.1.0.2.0 - 64bit Production
With the Partitioning, OLAP, Advanced Analytics and Real Application Testing options

SQL> SET AUTOTRACE ON;
SQL> _
```

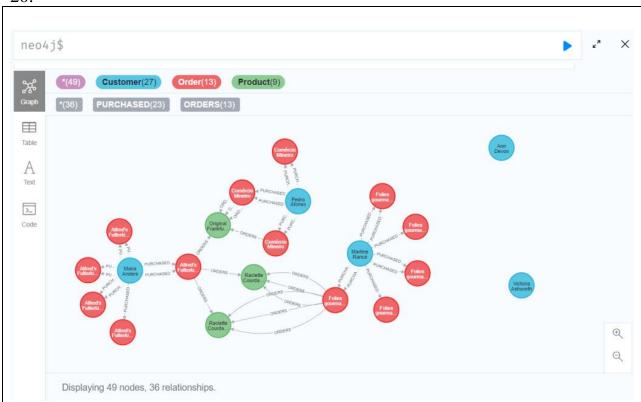
```
SQL> SET AUTOTRACE ON;
SQL> SELECT ENAME, DNAME from EMP NATURAL JOIN DEPT WHERE ENAME='SMITH';
ENAME DNAME
SMITH RESEARCH
Execution Plan
Plan hash value: 3625962092
me |
| 0 | SELECT STATEMENT | 1 | 22 | 4 (0)| 00
:00:01
                      | 1 | 22 | 4 (0) | 00
1 NESTED LOOPS
:00:01
                      | 1 | 22 | 4 (0) | 00
 2 NESTED LOOPS
:00:01
|* 3 | TABLE ACCESS FULL | EMP | 1 | 9 | 3 (0) | 00
:00:01
|* 4 | INDEX UNIQUE SCAN | PK_DEPT | 1 | 0 (0) | 00
:00:01
5 | TABLE ACCESS BY INDEX ROWID | DEPT | 1 | 13 | 1 (0) | 00
:00:01
```

```
1
   5
        TABLE ACCESS BY INDEX ROWID DEPT
                                                        13
                                                                    (0) 00
:00:01
Predicate Information (identified by operation id):
  3 - filter("EMP"."ENAME"='SMITH')
  4 - access("EMP"."DEPTNO"="DEPT"."DEPTNO")
Note
  - this is an adaptive plan
Statistics
         1 recursive calls
         0 db block gets
         9 consistent gets
         0 physical reads
         0 redo size
       618 bytes sent via SQL*Net to client
       552 bytes received via SQL*Net from client
         2 SQL*Net roundtrips to/from client
         0 sorts (memory)
         0 sorts (disk)
         1 rows processed
```

18.

```
> db.apoFirstExample.find({"root.expenseitem.description":"Hotel"});
{ "_id" : ObjectId("60f9bb0c588b8ac2f4334776"), "root" : { "employeeinfo" : [ { "name" : "Jane Winston", "date" : "2001-01-01", "code" : "0001" } ], "expenseitem" : [ { "date" : "2001-01-01", "description" : "Airfare", "amount" : "500.34" }, { "date" : "2001-01-01", "description" : "Taxi F are", "amount" : "100.00" }, { "date" : "2001-01-01", "description" : "Taxi F are", "amount" : "100.00" }, { "date" : "2001-01-01", "description" : "Food", "amount" : "82.19" }, { "date" : "2001-01-02", "description" : "Food", "amount" : "17.89" }, { "date" : "2001-01-02", "description" : "Personal Items", "amount" : "32.54" }, { "date" : "2001-01-03", "description" : "Food", "amount" : "36.45" }, { "date" : "2001-01-03", "description" : "Food", "amount" : "75.00" }, { "date" : "2001-01-03", "description" : "Food", "amount" : "75.00" } } }
```

19.



That's it! You're done!