

AKSHAT CHUDASAMA

FYCS – 13

FYCS

Practical 10

Study of Transaction (Commit/ Rollback), Locks

1.Perform Commit and Rollback on a table.

```
SQL> create table x(rno int);
Table created.
SQL> insert into x values(1);
1 row created.
SQL> insert into x values(2);
1 row created.
SQL> commit;
Commit complete.
SQL> select * from x;

      RNO
-----
        1
        2

SQL> delete from x where rno = 2;
1 row deleted.
SQL> select * from x;

      RNO
-----
        1

SQL> rollback;
Rollback complete.
SQL> select * from x;

      RNO
-----
        1
        2
```

2. Implementation of Share and Exclusive Lock Mode in employee table.

Share mode:

```
SQL> lock table Akshat_EMP in share mode;
Table(s) Locked.
```

```
SQL*Plus: Release 10.2.0.1.0 - Production on Tue Apr 13 14:01:33 2021
Copyright (c) 1982, 2005, Oracle. All rights reserved.

SQL> connect system/Akshat104
Connected.
SQL> lock table Akshat_EMP in share mode;

Table(s) Locked.

SQL>
```

Exclusive mode:

```
SQL> lock table Akshat_EMP in exclusive mode;
Table(s) Locked.
```

```
Run SQL Command Line

SQL*Plus: Release 10.2.0.1.0 - Production on Tue Apr 13 14:05:07 2021
Copyright (c) 1982, 2005, Oracle. All rights reserved.

SQL> connect system/Akshat104
Connected.
SQL> lock table Akshat_EMP in exclusive mode;

Table(s) Locked.

SQL>
```

AKSHAT CHUDASAMA

FYCS 13

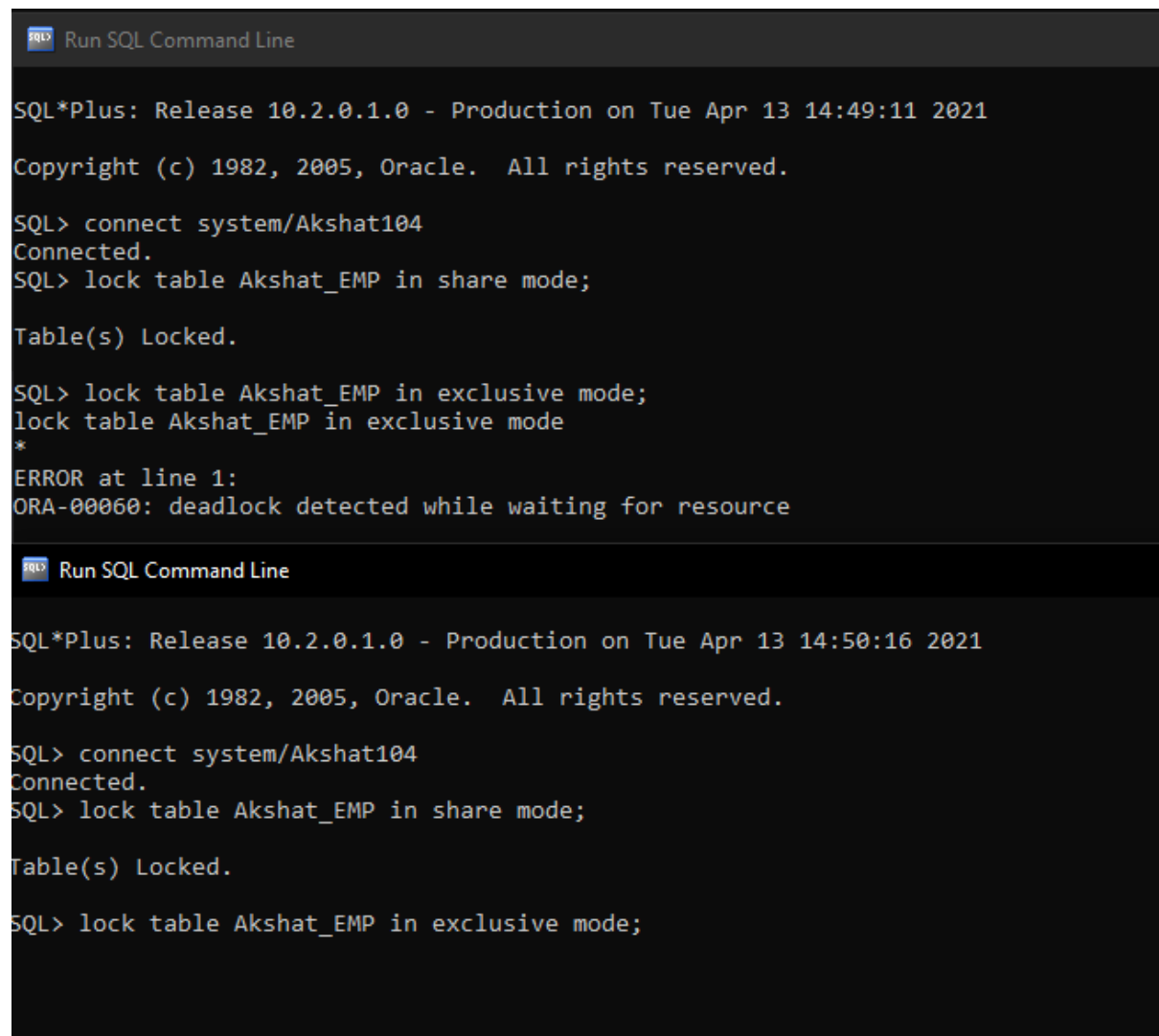
FYCS

PRACTICAL 11

Implementing Deadlocks

Deadlock :

A deadlock is a situation on which two or more transactions are waiting for one another to give up locks



```
SQL> Run SQL Command Line

SQL*Plus: Release 10.2.0.1.0 - Production on Tue Apr 13 14:49:11 2021

Copyright (c) 1982, 2005, Oracle. All rights reserved.

SQL> connect system/Akshat104
Connected.
SQL> lock table Akshat_EMP in share mode;

Table(s) Locked.

SQL> lock table Akshat_EMP in exclusive mode;
lock table Akshat_EMP in exclusive mode
*
ERROR at line 1:
ORA-00060: deadlock detected while waiting for resource
```



```
SQL> Run SQL Command Line

SQL*Plus: Release 10.2.0.1.0 - Production on Tue Apr 13 14:50:16 2021

Copyright (c) 1982, 2005, Oracle. All rights reserved.

SQL> connect system/Akshat104
Connected.
SQL> lock table Akshat_EMP in share mode;

Table(s) Locked.

SQL> lock table Akshat_EMP in exclusive mode;
```