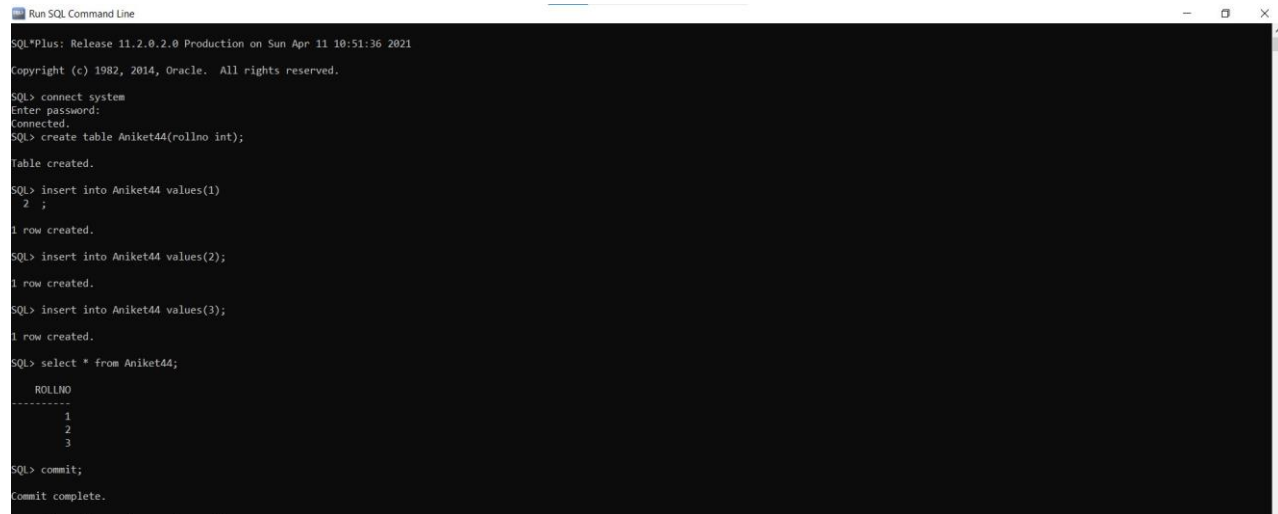


Practical No 10

Study of Transaction (Commit/ Rollback), Locks

1. Perform Commit and Rollback on a table.

Commit:



```
Run SQL Command Line
SQL*Plus: Release 11.2.0.2.0 Production on Sun Apr 11 10:51:36 2021
Copyright (c) 1982, 2014, Oracle. All rights reserved.

SQL> connect system
Enter password:
connected.
SQL> create table Aniket44(rollno int);
Table created.

SQL> insert into Aniket44 values(1)
2 ;
1 row created.

SQL> insert into Aniket44 values(2);
1 row created.

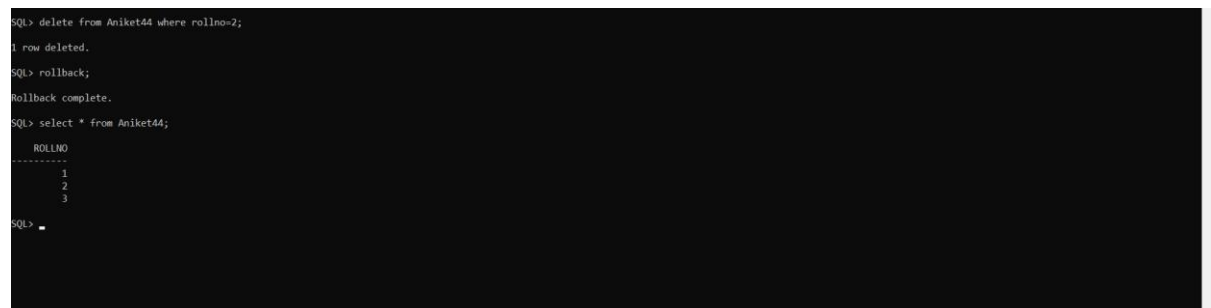
SQL> insert into Aniket44 values(3);
1 row created.

SQL> select * from Aniket44;

  ROLLNO
-----
       1
       2
       3

SQL> commit;
Commit complete.
```

Rollback:



```
SQL> delete from Aniket44 where rollno=2;
1 row deleted.

SQL> rollback;
Rollback complete.

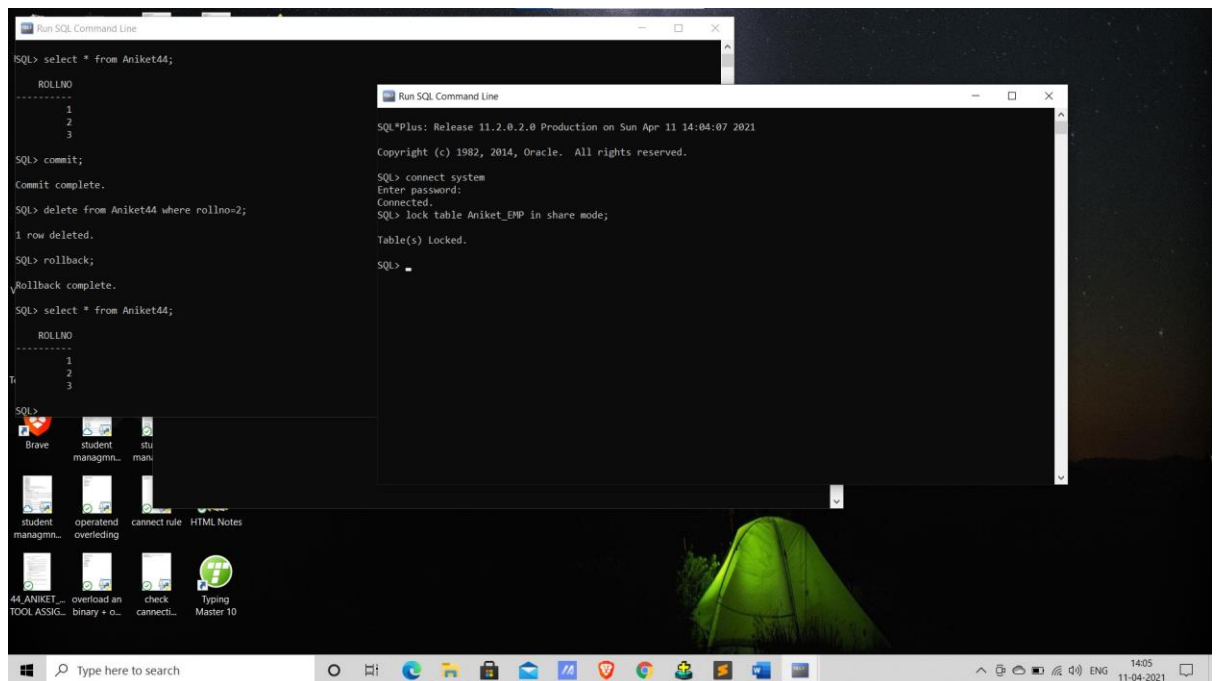
SQL> select * from Aniket44;

  ROLLNO
-----
       1
       2
       3

SQL> _
```

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

Shared Mode:



```
SQL> select * from Aniket44;
-----
ROLLNO
-----
1
2
3

SQL> commit;
Commit complete.

SQL> delete from Aniket44 where rollno=2;
1 row deleted.

SQL> rollback;
Rollback complete.

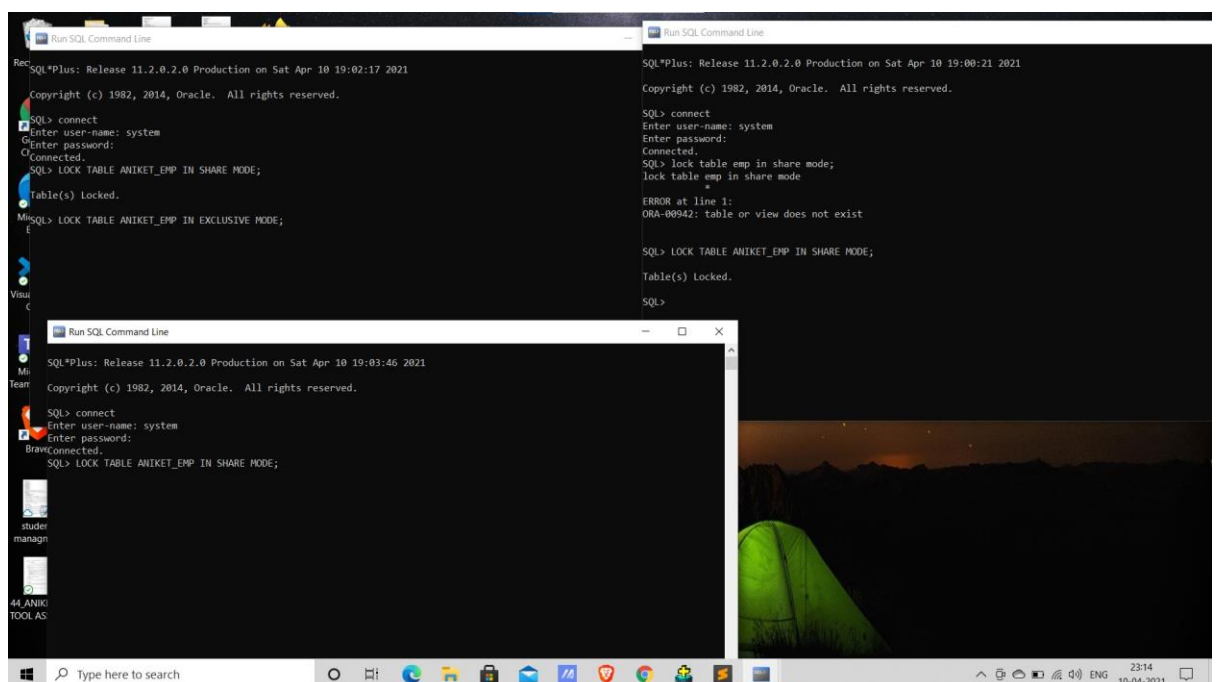
SQL> select * from Aniket44;
-----
ROLLNO
-----
1
2
3

SQL>

SQL*Plus: Release 11.2.0.2.0 Production on Sun Apr 11 14:04:07 2021
Copyright (c) 1982, 2014, Oracle. All rights reserved.

SQL> connect system
Enter password:
Connected.
SQL> lock table Aniket_EMP in share mode;
Table(s) Locked.
SQL>
```

Exclusive Lock:



```
SQL*Plus: Release 11.2.0.2.0 Production on Sat Apr 10 19:02:17 2021
Copyright (c) 1982, 2014, Oracle. All rights reserved.

SQL> connect
Enter user-name: system
Enter password:
Connected.
SQL> LOCK TABLE ANIKET_EMP IN SHARE MODE;
Table(s) Locked.
SQL> LOCK TABLE ANIKET_EMP IN EXCLUSIVE MODE;
Table(s) Locked.
SQL>

SQL*Plus: Release 11.2.0.2.0 Production on Sat Apr 10 19:00:21 2021
Copyright (c) 1982, 2014, Oracle. All rights reserved.

SQL> connect
Enter user-name: system
Enter password:
Connected.
SQL> lock table emp in share mode;
lock table emp in share mode
*
ERROR at line 1:
ORA-00942: table or view does not exist

SQL> LOCK TABLE ANIKET_EMP IN SHARE MODE;
Table(s) Locked.
SQL>

SQL*Plus: Release 11.2.0.2.0 Production on Sat Apr 10 19:03:46 2021
Copyright (c) 1982, 2014, Oracle. All rights reserved.

SQL> connect
Enter user-name: system
Enter password:
Connected.
SQL> LOCK TABLE ANIKET_EMP IN SHARE MODE;
Table(s) Locked.
SQL>
```