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UID no.	2022600049
Experiment No.	C.3
Topic	Crime Records

AIM:	To perform DCL, TCL commands	
Program 1		
PROBLEM STATEMENT:	To perform DCL, TCL commands	
	Data Control Language: Grant, Revoke, Roles	
	• Transaction Control Language: Commit, Rollback, Savepoint	
RESULT:		

Create New User

1 • USE CriminalRecord;

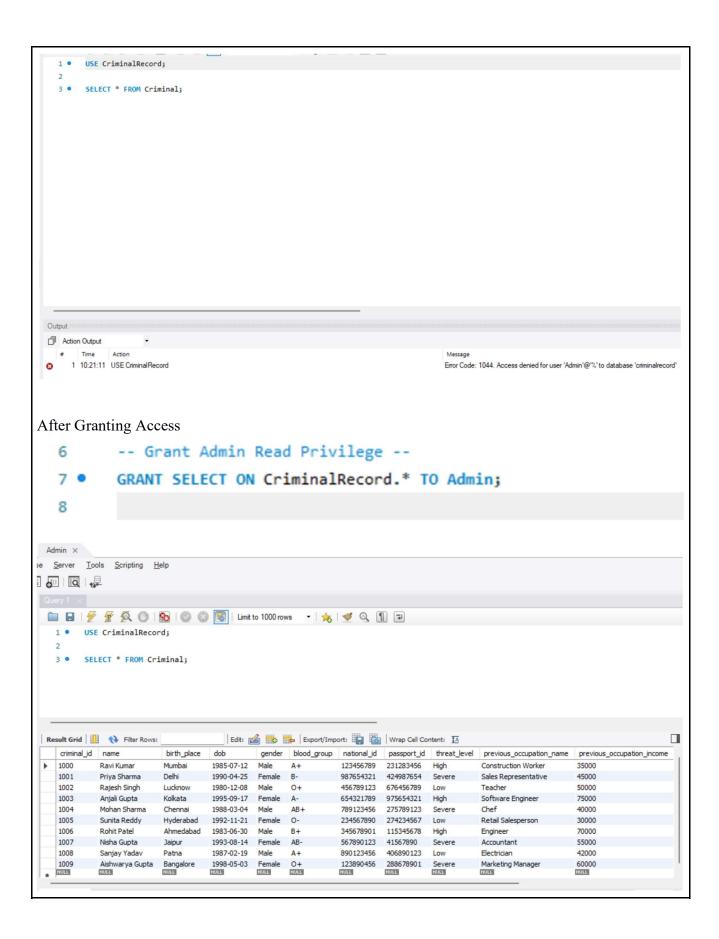
2

3 -- Create a New User DB Admin --

4 • CREATE USER Admin IDENTIFIED BY "Admin";

5

Before Granting Access to Admin



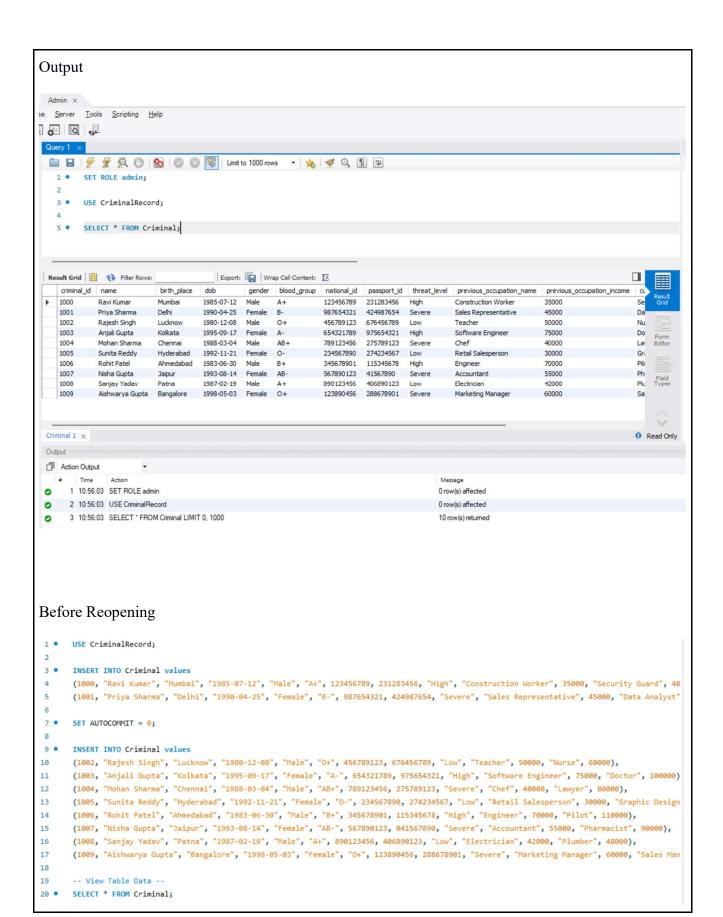
```
Revoking Access
                                -- Grant Admin Read Privilege --
                                GRANT SELECT ON CriminalRecord.* TO Admin;
       8
       9
                               -- Revoke Admin Read Privilege --
    10 • REVOKE SELECT ON CriminalRecord.* FROM Admin;
    11
  Admin ×
 e <u>S</u>erver <u>T</u>ools <u>S</u>cripting <u>H</u>elp
Query 1 ×
    □ □ □ | \( \frac{\psi}{\psi} \) \( \frac{\psi}{\psi} \) \( \frac{\psi}{\psi} \) | \( \frac{\psi}{\psi} \) | \( \omega \) \( \omega \) \( \omega \) | \( \omega \
                                                                                                                                                                                                                                                                                                                                                          1 • USE CriminalRecord;
                                                                                                                                                                                                                                                                                                                                                             Automatic con
                                                                                                                                                                                                                                                                                                                                                          disabled. Use tl
        3 • SELECT * FROM Criminal;
                                                                                                                                                                                                                                                                                                                                                             manually get I
                                                                                                                                                                                                                                                                                                                                                           current caret p
                                                                                                                                                                                                                                                                                                                                                                 toggle auton
                                                                                                                                                                                                                                                                                                                                                        Context Help Snippets
   Output
   Action Output
  # Time Action
1 10:21:11 USE CriminalRecord
                                                                                                                                                                                                                    Error Code: 1044. Access denied for user 'Admin'@"%' to database 'criminalrecord'
  2 10:23:34 SELECT * FROM Criminal LIMIT 0, 1000
                                                                                                                                                                                                                    Error Code: 1046. No database selected Select the default DB to be used by double-clicking its name in the SCH...

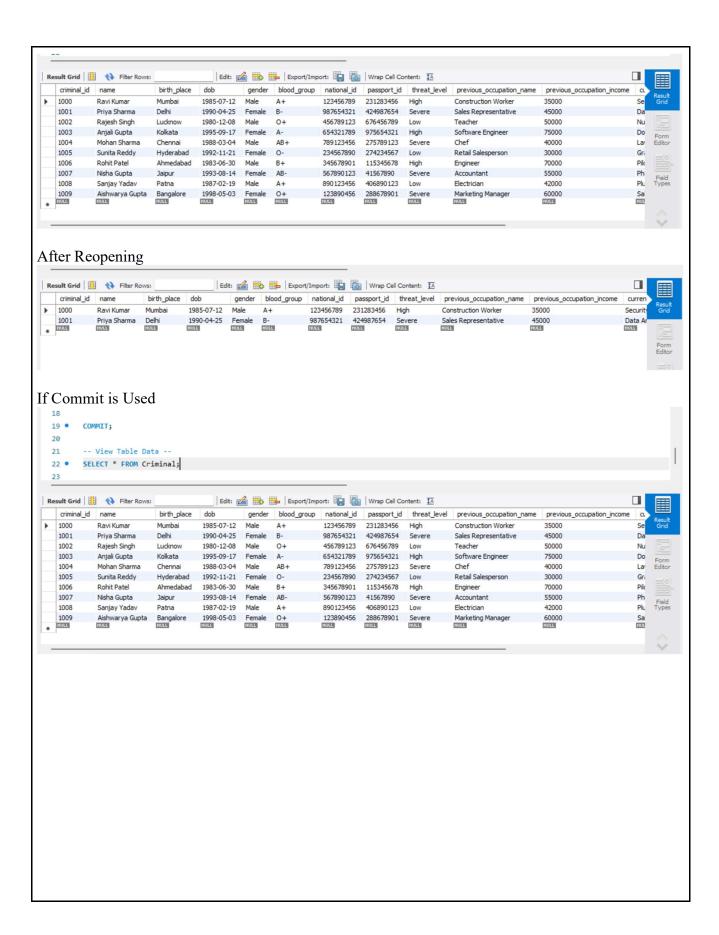
    3 10:23:38 USE Criminal Record

                                                                                                                                                                                                                    0 row(s) affected

    4 10:23:40 SELECT * FROM Criminal LIMIT 0, 1000

                                                                                                                                                                                                                    10 row(s) returned
   5 10:25:45 USE CriminalRecord
                                                                                                                                                                                                                     Error Code: 1044. Access denied for user "Admin"@"%" to database "criminalrecord"
 Create and Assign Role
                                         -- Create New Role --
           12
           13 •
                                             CREATE ROLE admin;
           14
                                        -- Modify Role Privileges --
           15
                                              GRANT ALL PRIVILEGES ON CriminalRecord.* TO admin;
            16 •
             17
```





Savepoint and Rollback USE CriminalRecord; 3 0 SET AUTOCOMMIT = 0; 5 0 INSERT INTO Criminal values (1000, "Ravi Kumar", "Mumbai", "1985-07-12", "Male", "A+", 123456789, 231283456, "High", "Construction Worker", 35000, "Security Guard", 40000), (1001, "Prlya Sharma", "Delhi", "1990-04-25", "Female", "8-", 987654321, 424987654, "Severe", "Sales Representative", 45000, "Data Analyst", 55000); 9 • SAVEPOINT SP: 10 11 • INSERT INTO Criminal values (1002, "Rajesh Singh", "Lucknow", "1980-12-08", "Male", "O+", 456789123, 676456789, "Low", "Teacher", 50000, "Nurse", 60000), 12 13 (1803, "Anjali Gupta", "Kolkata", "1995-09-17", "Female", "A-", 654321789, 975654321, "High", "Software Engineer", 75000, "Doctor", 100000), (1804, "Mohan Sharma", "Chennai", "1988-03-04", "Male", "AB+", 789123456, 275789123, "Severe", "Chef", 40000, "Lawyer", 80000), 14 15 (1005, "Sunita Reddy", "Hyderabad", "1992-11-21", "Female", "O-", 234567890, 274234567, "Low", "Retail Salesperson", 30000, "Graphic Designer", 45000), 16 (1006, "Rohit Patel", "Ahmedabad", "1983-06-30", "Male", "B+", 345678901, 115345678, "High", "Engineer", 70000, "Pilot", 110000), 17 (1807, "Nisha Gupta", "Jaipur", "1993-08-14", "Female", "AB-", 567890123, 041567890, "Severe", "Accountant", 55000, "Pharmacist", 90000), 18 (1808, "Sanjay Yadav", "Patna", "1987-02-19", "Male", "A+", 890123456, 406890123, "Low", "Electrician", 42000, "Plumber", 48000), 19 (1609, "Aishwarya Gupta", "Bangalore", "1998-05-03", "Female", "0+", 123890456, 288678901, "Severe", "Marketing Manager", 60000, "Sales Manager", 70000); 20 21 0 ROLLBACK TO SP: 22 23 -- View Table Data --24 SELECT * FROM Criminal: 25 Output | Edit: 🕍 📆 | Export/Import: 📳 🐻 | Wrap Cell Content: 🏗 gender blood_group national_id passport_id threat_level previous_occupation_name previous_occupation_income criminal_id name birth_place dob currer 1000 Ravi Kumar Mumbai 1985-07-12 Male A+ 123456789 231283456 High Construction Worker 35000 Securit 1001 Priya Sharma Delhi 1990-04-25 Female B-987654321 424987654 Severe Sales Representative 45000 Data A