Database administration commands

Sunday, April 21, 2024 8:31 PM

Creating user:

mysql> create user student@localhost identified by '1234';

mysql> select user, host from mysql.user;

user	host		
mysql.infoschema	 localhost		
mysql.session	localhost		
mysql.sys	localhost		
root	localhost		
student	localhost		

Creating role:

mysql> create role admin;

Granting priveleges to role:

grant all on *.* to admin;

Assigning role to user:

grant admin to student@localhost with admin option;

Login as a student@localhost:

Activating the role that assigned to student;

mysql> Set role admin;

mysql> use student_society;
mysql> select * from student;

Roll_no	Name	Course	DOB	Mobile_no		
x00005	Ansh	CS	2003-10-19	9999999999		
x00006	Chetan	Chemistry	2001-12-30	9999999999		
x00007	Bhavik	Physics	2002-04-25	9999999999		
x00008	Aman	Maths	2005-02-21	9999999999		
x00009	Aarav	CS	2004-10-06	9999999999		
y00005	Vishal	CS	2004-10-08	9999999999		
y00006	Sujal	Chemistry	2004-10-06	9999999999		
y00007	Sachin	Maths	2005-08-06	9999999999		
y00008	Sarthak	Physics	2005-08-28	9999999999		
y00009	Alok	Chemistry	2004-08-28	9999999999		
z00005	Arun	Maths	2002-10-28	9999999999		
z00006	Rahul	CS	2004-08-30	9999999999		
z00007	Sourabh	CS	2004-09-30	9999999999		
200008	Tanuj	Chemistry	2004-04-08	9999999999		
z00009	Mayank	Physics	2004-06-10	9999999999		

Revoking privileges from role:

mysql> revoke all on *.* from admin;

Now user can't use any privileges that were assigned to the role admin

mysql> select user from mysql.user;

ERROR 1142 (42000): SELECT command denied to user 'student'@'localhost' for table 'user'

 Creating index:

 mysql> show indexes from student;

 | Table | Non_unique | Key_name | Seq_in_index | Column_name | Collation | Cardinality | Sub_part | Packed | Null | Index_type | Comment | Index_comment | Visible | Expression |

 | Student | 0 | PRIMARY | 1 | Roll_no | A | 15 | NULL | NULL | BTREE | | YES | NULL |

mysql> create index student_name_index on student(name);

Table N	on_unique	Key_name	Seq_in_inde	ex (Column_name	Collation	Cardinality	Sub_part	Packed	Null	Index_type	Comment	Index_
			+			+	+					+	+
student YES		PRIMARY		1 F	Roll_no	A	15	NULL	NULL		BTREE	1	ĺ
student YES		student_name_index		1 1	Vame	I A		NULL	NULL		BTREE		I