<7 조>

권한 부여 2

```
root@dbsecure:~/dbsecure2021/codes# sudo mysql -u dbteacher -p
Enter password:
Welcome to the MySQL monitor. Commands end with; or \g.
Your MySQL connection id is 8
Server version: 5.7.35-0ubuntu0.18.04.2 (Ubuntu)

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Type 'help;' or '\h' for help. Type '\c' to clear the current input s
mysql>
```

dbteacher 로 로그인

```
mysql> use companyDB;
Reading table information for completion of table and column names
You can turn off this feature to get a quicker startup with -A

Database changed
mysql> grant select, delete on departments to dbstudent1@localhost with grant option;
Query OK, 0 rows affected (0.00 sec)

mysql> grant create view on companyDB.* to dbstudent1@localhost;
Query OK, 0 rows affected (0.00 sec)
```

사용할 db 지정, dbstudent1 에게 departments 에 대한 select, delete 권한을 grant 옵션과 함께 부여 dbstudent1 에게 companyDB 의 모든 테이블에 대한 view 생성 권한 주기

dbstudent1 으로 바꾸어 로그인하여 show databases 입력 시, 권한을 받은 companyDB가 들어있음

show tables 명령으로 확인하면 view 명령에서 *로 모든 테이블에 대한 권한을 받았기 때문에 모든 테이블이 들어있음

select * from departments 는 결과가 나오지만 select * from employees 는 권한을 부여하지 않아 결과가 나오지 않음을 확인할 수 있다.

```
mysql> create view department2 as select * from departments;
Query OK, 0 rows affected (0.01 sec)
```

view 명령을 앞에서 모든 테이블에 대해 주었기 때문에 departments 에 대해서 정상적으로 view 생성됨

권한부여 3

```
mysql> grant select on departments to dbstudent2@localhost;
Query OK, 0 rows affected (0.01 sec)
```

권한부여 2 문제에서 dbstudent1 에게 grant 옵션을 넣어 권한을 주었기 때문에 다른 계정(dbstudent2)에게 select 권한을 정상적으로 줄 수 있음을 확인하였다.

dbstudent2 에게 정상적으로 권한이 넘어가여 select 가 동작하는 것을 확인하였다. -계정을 dbstudent2 로 바꾸어 departments 에 대한 select 질의를 실행하였다.

권한부여 4

dbteacher 로 로그인하여 dbstudent2 에 employees 에 대한 select 권한과 companyDB 의 employees 테이블에 대한 create view 권한을 부여했다.

```
dbs_20180445@dbsecure:~$ sudo mysql -u dbteacher -p
Enter password:
Welcome to the MySQL monitor. Commands end with; or \g.
Your MySQL connection id is 122
Server version: 5.7.35-OubuntuO.18.04.2 (Ubuntu)

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Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.
mysql> grant select on companyDB.employees to dbstudent2@localhost;
Query OK, O rows affected (0.00 sec)

mysql> grant create view on companyDB.employees to dbstudent2@localhost;
Query OK, O rows affected (0.00 sec)

mysql> exit
Bye
```

dbstudent2 에 여성 employee 로만 이루어진 femployee 이름의 view 를 생성하였다. use companyDB;

create view femployee as select * from employees where Sex='F';

```
root@dbsecure:~/dbsecure2021/codes# sudo mysql -u dbstudent2 -p
Enter password:
Welcome to the MySQL monitor. Commands end with; or \g.
Your MySQL connection id is 12
Server version: 5.7.35-0ubuntu0.18.04.2 (Ubuntu)
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affiliates. Other names may be trademarks of their respective
Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.
mysql> create view femployee as select * from employees where Sex='F';
ERROR 1046 (3D000): No database selected
nysql> use companyDB;
Reading table information for completion of table and column names
You can turn off this feature to get a quicker startup with -A
Database changed
nysql> create view femployee as select * from employees where Sex='F';
Query OK, 0 rows affected (0.01 sec)
```

다시 dbteacher 로 로그인해서 femployee 에 대한 select 권한을 dbstudent2 에게 부여한다.

```
mysql> use companyDB;
Reading table information for completion of table and column names
You can turn off this feature to get a quicker startup with -A

Database changed
mysql> grant select on femployee to dbstudent2@localhost;
Query OK, 0 rows affected (0.00 sec)
```

dbstudent2 로 로그인해서 질의하면 여성 employee 로만 이루어진 femployee 이름의 view에 대한 데이터가 나옴을 확인할 수 있다.

select * from femployee;

mysql> use companyDB; Reading table information for completion of table and column names You can turn off this feature to get a quicker startup with -A Database changed mysql> select * from femployee;									
Fname	Minit	Lname		Bdate	Address	Sex	Salary	Super_ssn	Dno
Sarah	A B S J	English Lee Wallace Zelaya	876587658 887654321	1969-10-15 1941-06-20	5631 Rice, Houston, TX 1917 Federal, Spring, TX 291 Berry, Bellaire, TX 3321 Castle, Spring, TX		25000.00 28000.00 43000.00 25000.00	333445555 888665555 888665555 987654321	++ 5 4 4 4
4 rows in se	et (0.00	sec)				+	+		++