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Lab 13 CS-3502 Database Theory 002

Create lab13\_db:

```
CREATE SCHEMA lab13_db;
```

## Create tables:

```
1 • CREATE TABLE customer(
           employee_id INT UNSIGNED NOT NULL AUTO_INCREMENT,
 3
           firstname VARCHAR(255),
4
           lastname VARCHAR(255),
5
           phone_number VARCHAR(15),
 6
           PRIMARY KEY (employee_id)
 7
8
9 • CREATE TABLE customer_audit(
           employee_audit_id INT UNSIGNED NOT NULL AUTO_INCREMENT,
10
           employee_id INT UNSIGNED,
11
           change_on TIMESTAMP DEFAULT CURRENT_TIMESTAMP,
12
13
           PRIMARY KEY (employee_audit_id),
14
           FOREIGN KEY (employee_id) REFERENCES customer(employee_id)
15
```

Create one admin user:

```
mysql> CREATE USER 'admin'@'localhost' IDENTIFIED BY 'secret';
Query OK, 0 rows affected (0.01 sec)

mysql> GRANT ALL PRIVILEGES ON lab13_db.*TO'admin'@'localhost';
Query OK, 0 rows affected (0.01 sec)

mysql> FLUSH PRIVILEGES;
Query OK, 0 rows affected (0.01 sec)

mysql> |
```

Create one read user only read all the tables (Sally):

```
mysql> CREATE USER 'sally'@'localhost' IDENTIFIED BY 'secret';
Query OK, 0 rows affected (0.01 sec)

mysql> GRANT SELECT ON lab13_db.*TO'sally'@'localhost';
Query OK, 0 rows affected (0.01 sec)

mysql> FLUSH PRIVILEGES;
Query OK, 0 rows affected (0.00 sec)

mysql> |
```

Create one read/write user (Tom):

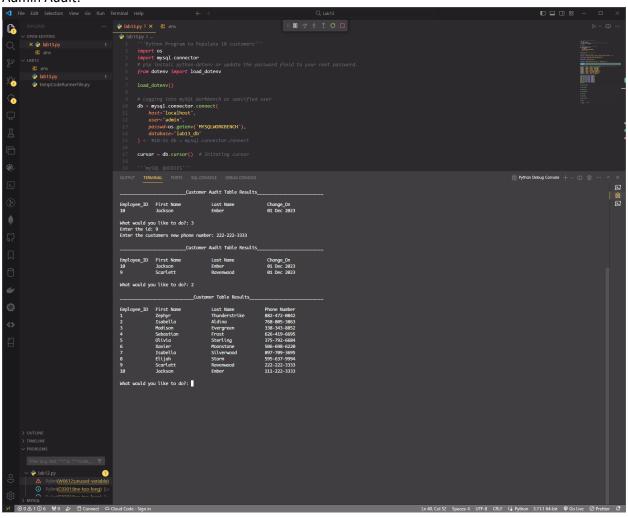
Should be GRANT SELECT, INSERT, UPDATE, DELETE

```
mysql> CREATE USER 'tom'@'localhost' IDENTIFIED BY 'secret';
Query OK, 0 rows affected (0.01 sec)

mysql> GRANT SELECT,INSERT ON lab13_db.*TO'tom'@'localhost';
Query OK, 0 rows affected (0.01 sec)

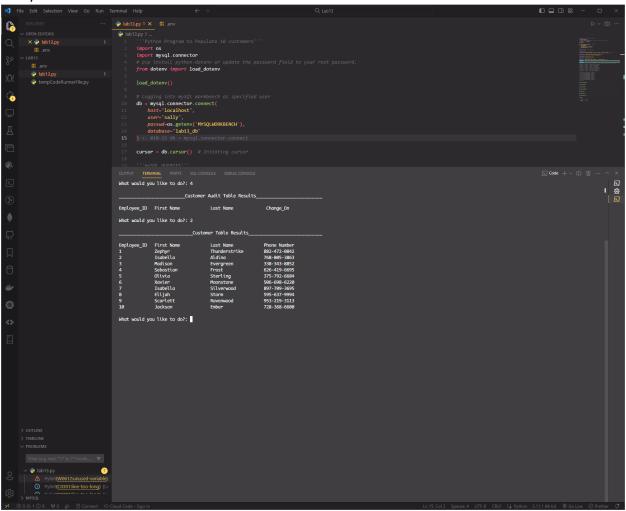
mysql> FLUSH PRIVILEGES;
Query OK, 0 rows affected (0.01 sec)
```

## Admin Audit:



## Sally Audit:

\*Sally can read the files but cannot write to file.



## Tom Audit:

