**ITS 26000 – Applied Database Tech**

**Lab 11 – (100 points)**

**Use SQL to complete the following exercises.**

### **KimTay Pet Supplies:**

1. Create user, Grant privileges to the user, Revoke privileges, Delete user.
2. Create a new user account. The account name should be a combination of your first initial and your last name. (Ex: flastName)

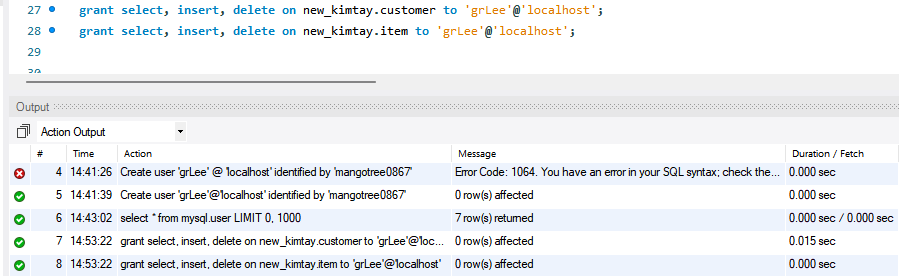
Create user 'grLee'@'localhost' identified by 'mangotree0867';

텍스트이(가) 표시된 사진

자동 생성된 설명테이블이(가) 표시된 사진

자동 생성된 설명

1. Allow the new user to select all fields, insert new rows in the CUSTOMER and ITEM tables and delete rows from these tables.



텍스트이(가) 표시된 사진

자동 생성된 설명

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자동 생성된 설명

테이블이(가) 표시된 사진

자동 생성된 설명

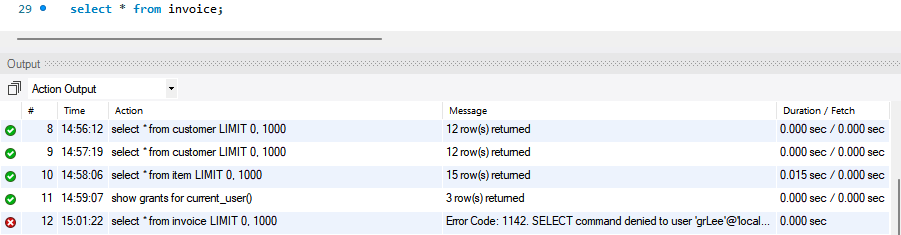
1. Log in to MySQL with the new account. Determine the privileges currently available to the account by corresponding SQL statement. In addition, try to make a query on INVOICE table to see if the new account can do such an operation.

show grants for current\_user();

텍스트이(가) 표시된 사진

자동 생성된 설명

This user does not have privileges for the invoice table



1. Go back to connection with “root” account, revoke all privileges assigned to the new account.

revoke select, insert, delete on new\_kimtay.customer from 'grLee'@'localhost';

revoke select, insert, delete on new\_kimtay.item from 'grLee'@'localhost';

텍스트이(가) 표시된 사진

자동 생성된 설명

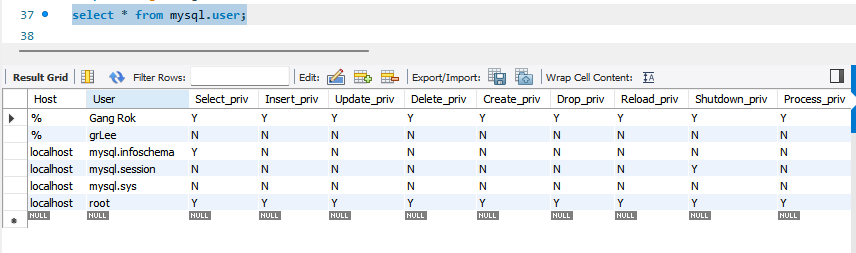
텍스트이(가) 표시된 사진

자동 생성된 설명

1. Delete the new account.

drop user 'grLee'@'localhost';



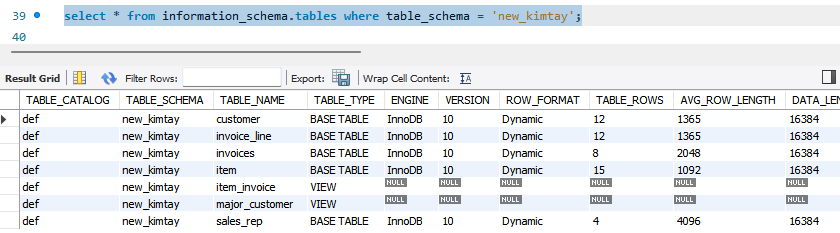


1. Write and execute the commands to do the following with the system catalog:
2. List all the tables contained within the system catalog.

select \* from information\_schema.tables where table\_schema = 'new\_kimtay';

텍스트이(가) 표시된 사진

자동 생성된 설명



1. List all the columns contained within the system catalog.

select \* from information\_schema.columns where table\_schema = 'new\_kimtay';

테이블이(가) 표시된 사진

자동 생성된 설명

1. List all the views contained within the system catalog.

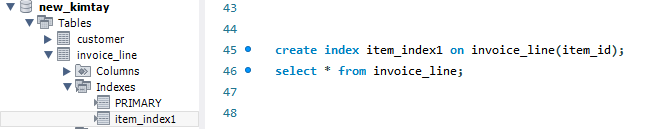
select \* from information\_schema.views where table\_schema = 'new\_kimtay';

텍스트이(가) 표시된 사진

자동 생성된 설명

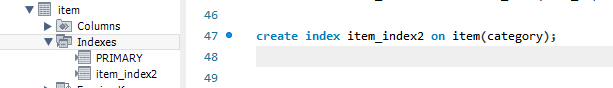
1. Perform the following tasks:
2. Create an index named ITEM\_INDEX1 on the ITEM\_ID column in the INVOICE\_LINE table.

create index item\_index1 on invoice\_line(item\_id);



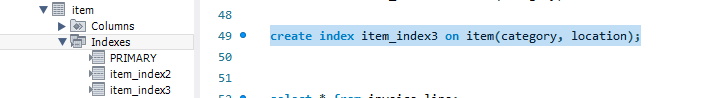
1. Create an index named ITEM\_INDEX2 on the CATEGORY column in the ITEM table.

create index item\_index2 on item(category);



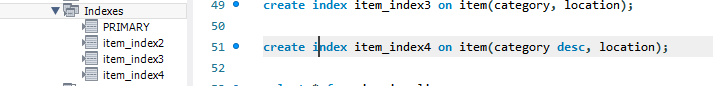
1. Create an index named ITEM\_INDEX3 on the CATEGORY and LOCATION columns in the ITEM table.

create index item\_index3 on item(category, location);



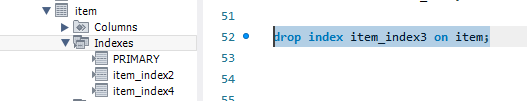
1. Create an index named ITEM\_INDEX4 on the CATEGORY and LOCATION columns in the ITEM table. List categories in descending order.

create index item\_index4 on item(category desc, location);



1. Delete the index named ITEM\_INDEX3.

drop index item\_index3 on item;



1. Add the INVOICE\_NUM column as a foreign key in the INVOICE\_LINE table.

ALTER TABLE invoice\_line

ADD FOREIGN KEY (invoice\_num) REFERENCES invoices(invoice\_num);

텍스트이(가) 표시된 사진

자동 생성된 설명

1. Ensure that the only legal values for the CREDIT\_LIMIT column are 250, 500, 750, and 1000.

alter table customer add constraint credit\_limit\_check check(credit\_limit in ('250.00', '500.00', '750.00', '1000.00'));

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**테이블이(가) 표시된 사진

자동 생성된 설명**

**Deliverables**: **Document Report with the SQL statement/Query and snapshot of query, its execution and results.** Either word or pdf file need to be uploaded into Brightspace in one submission