LAPORAN MINGGU KE-12 TM 1 BASIS DATA (PRAKTIKUM)



NAMA : MUKHAMAD IKHSANUDIN

NIM : 082011633086

DOSEN : Purbandini, S.Si., M.Kom.

197107122008122001

S1 SISTEM INFORMASI

FAKULTAS SAINS DAN TEKNOLOGI

UNIVERSITAS AIRLANGGA

2021

Data Definition Language (DDL) Selasa, 25 Mei 2021

Petunjuk Praktikum:

- a. Ada 11 soal yang harus Anda kerjakan. Pada setiap soal, buatlah *script* SQL-nya dan *capture* hasilnya. Kedua-duanya di-*paste*-kan di dokumen word.
- b. Nama basis data yang Anda buat adalah bikestore ditambah 3 digit angka terakhir dari NIM Anda. Contoh: jika NIM Anda 081911633081, maka nama basis data-nya adalah bikestore_081. Hal ini juga berlaku apabila Anda diminta untuk mengubah nama field/kolom.
- c. Hasil pengerjaan yang Anda kumpulkan berupa dokumen PDF dengan ketentuan penamaan file **Week12_TM1_NIM.pdf**. Contoh: Week12_TM1_081911633081.pdf

Soal:

1. Buatlah basis data dengan nama bikestore_nim!

2. Buatlah tabel productGroups seperti di bawah ini!

Field	+ Type +	Null	-	+ Default +	++ Extra ++
productGroup textDescription htmlDescription image	varchar(50) varchar(4000) mediumtext mediumblob	YES YES YES YES	' 	' NULL NULL NULL	

- 3. Setelah kolom/field htmlDescription, tambahkan kolom baru dengan nama dimensionDescription dengan tipe data berupa text, boleh null, dan default null.
- 4. Tambahkan identifier *primay key* pada *productGroup*!
- 5. Ubahlah tipe data kolom *textDescription* menjadi **varchar(2000)** dan kolom *htmlDescription* menjadi **text!**
- 6. Ubahlah nama kolom *image* menjadi *picture*!
- 7. Ubahlah nama tabel *productGroups* menjadi *productGroups_nim*!

8. Buatlah tabel *products_nim* seperti di bawah ini!

productCode	Field	Type	Null	Key	Default	Extra
	productName productScale productVendor productDescription quantityInStock buyPrice	<pre> varchar(70) varchar(10) varchar(50) text smallint(6) double</pre>	NO NO NO NO NO	PRI 	NULL NULL NULL NULL NULL	

- 9. Setelah kolom *productName*, tambahkan kolom *productGroup* varchar(50) serta jadikan kolom ini sebagai **foreign key** yang merujuk ke kolom *productGroup* di tabel *productGroups_*nim!
- 10. Setelah kolom buyPrice, tambahkan kolom sellPrice type double!
- 11. **Delete/**hapus kolom MSRP!

```
-- No. 1
CREATE DATABASE bikestore_086;
SHOW DATABASES;
```

```
SQLyog Ultimate 64 - [DataBase/test - root@localhost*]
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  root @localhost

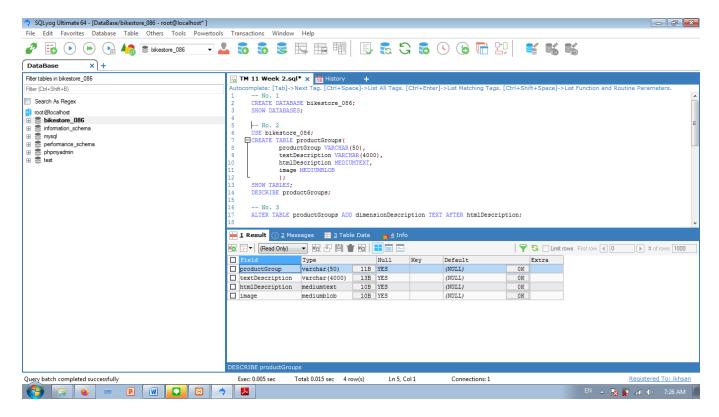
bikestore_086

information_schema

mysql

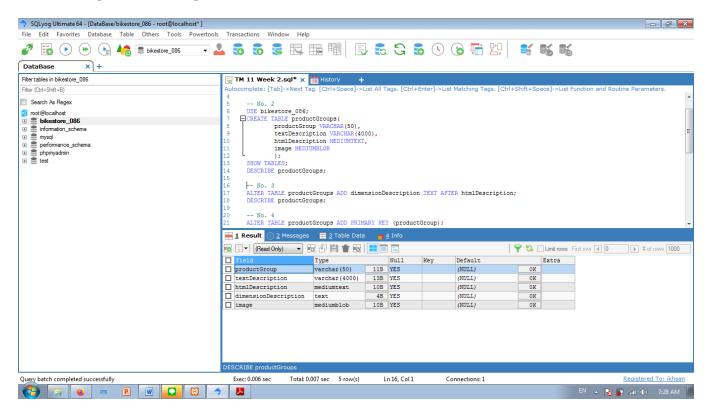
performance_schema
                                                                                                                              -- No. 2
USE bixestore_086;

CREATE TABLE productGroups(
productGroup VARCHAR(60),
textDescription VARCHAR(4000),
htmlDescription VARCHAR(4000),
  image MEDIUMBLOB
                                                                                                                                 SHOW TABLES;
DESCRIBE productGroups;
                                                                                                                                  - No. 3 _{\hbox{ALTER}} TABLE productGroups ADD dimensionDescription TEXT AFTER htmlDescription;
                                                                                                                      1 Result 1 2 Messages 1 3 Table Data 6 4 Info
                                                                                                                      [Read Only) ▼ [Read Only) ▼
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-- No. 2
USE bikestore 086;
CREATE TABLE productGroups (
                    productGroup VARCHAR (50),
                    textDescription VARCHAR (4000),
                    htmlDescription MEDIUMTEXT,
                    image MEDIUMBLOB
                    );
SHOW TABLES:
DESCRIBE productGroups;
```

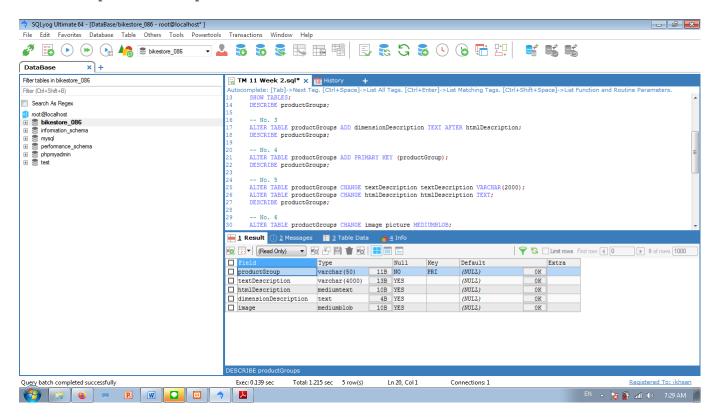


ALTER TABLE productGroups ADD dimensionDescription TEXT AFTER htmlDescription;

DESCRIBE productGroups;



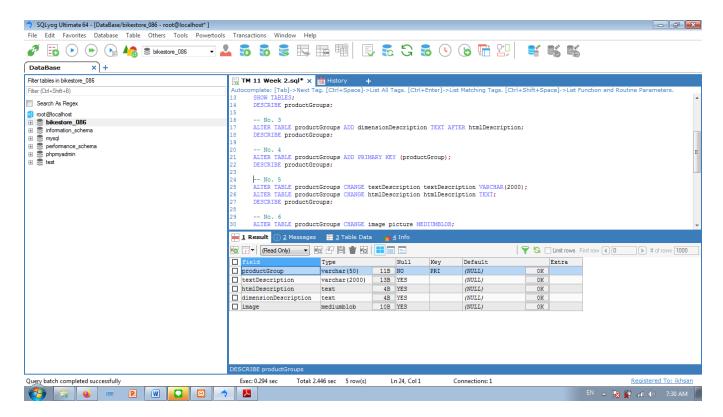
ALTER TABLE productGroups ADD PRIMARY KEY (productGroup);
DESCRIBE productGroups;



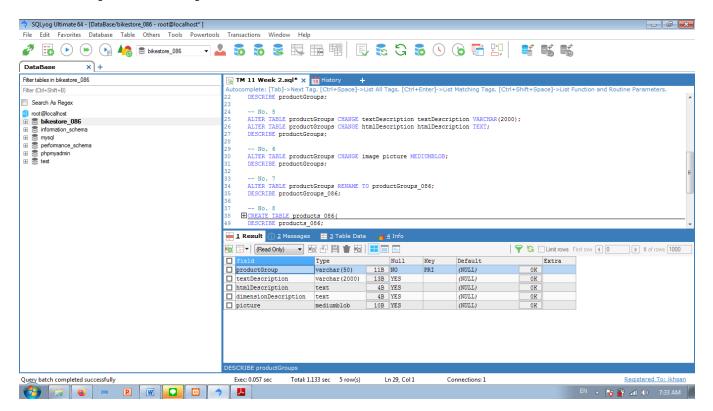
-- No. 5

ALTER TABLE productGroups CHANGE textDescription textDescription VARCHAR(2000);

ALTER TABLE productGroups CHANGE htmlDescription htmlDescription TEXT; DESCRIBE productGroups;



ALTER TABLE productGroups CHANGE image picture MEDIUMBLOB; DESCRIBE productGroups;

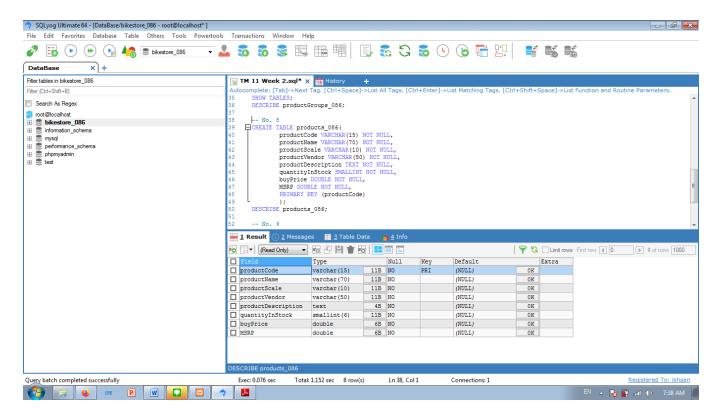


```
-- No. 7
ALTER TABLE productGroups RENAME TO productGroups 086;
SHOW TABLES;
DESCRIBE productGroups 086;
SQLyog Ultimate 64 - [DataBase/bikestore_086 - root@localhost*]
  File Edit Favorites Database Table Others Tools Powertools Transactions Window Help
  DataBase × +
                                                                                                                                                            TM 11 Week 2.sql* x History +
Autocomplete: [Tab]->Next Tag, [Ctrl+Space]->List All Tags. [Ctrl+Enter]->List Matching Tags. [Ctrl+Shift+Space]->List Function and Routine Parameters
  Filter tables in bikestore_086
   Filter (Ctrl+Shift+B)
                                                                                                                                                                           -- No. 5
ALTER TABLE productGroups CHANGE textDescription textDescription VARCHAR(2000);
ALTER TABLE productGroups CHANGE htmlDescription htmlDescription TEXT;
  Search As Reger
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  root@localhost

bikestore_086

finformation_schema
fingsystems
fin
                                                                                                                                                                           DESCRIBE productGroups;
                                                                                                                                                                          -- No. 6
ALTER TABLE productGroups CHANGE image picture MEDIUMBLOB;
DESCRIBE productGroups;
   -- No. 7
ALTER TABLE productGroups RENAME TO productGroups_086;
                                                                                                                                                                          DESCRIBE productGroups_086;
                                                                                                                                                          37
38 -- No. 8
39 CREATE TABLE products_086(
productCode VARCHAR(15) NOT NULL,
41 productName VARCHAR(70) NOT NULL,
41 Result () 2 Messages  3 Table Data 4 Info
                                                                                                                                                                                                                                                                                                                                                         The street of th
                                                                                                                                                          ☐ Tables_in_bikestore_ver
☐ productgroups_086
 Query batch completed successfully
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-- No. 8
CREATE TABLE products 086(
                          productCode VARCHAR (15) NOT NULL,
                          productName VARCHAR (70) NOT NULL,
                          productScale VARCHAR (10) NOT NULL,
                          productVendor VARCHAR (50) NOT NULL,
                          productDescription TEXT NOT NULL,
                          quantityInStock SMALLINT NOT NULL,
                          buyPrice DOUBLE NOT NULL,
                          MSRP DOUBLE NOT NULL,
                          PRIMARY KEY (productCode)
```

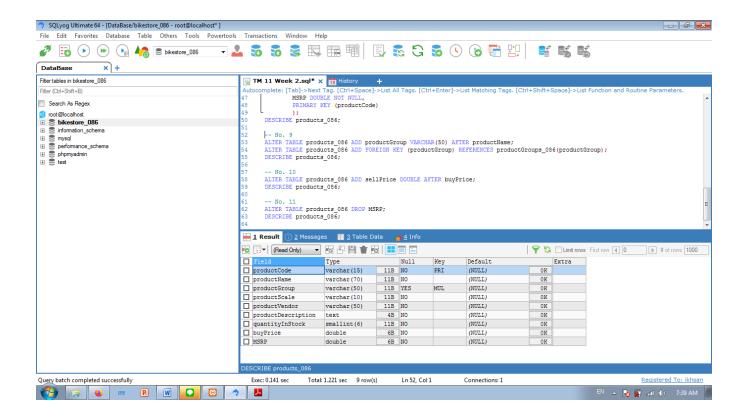
DESCRIBE products 086;



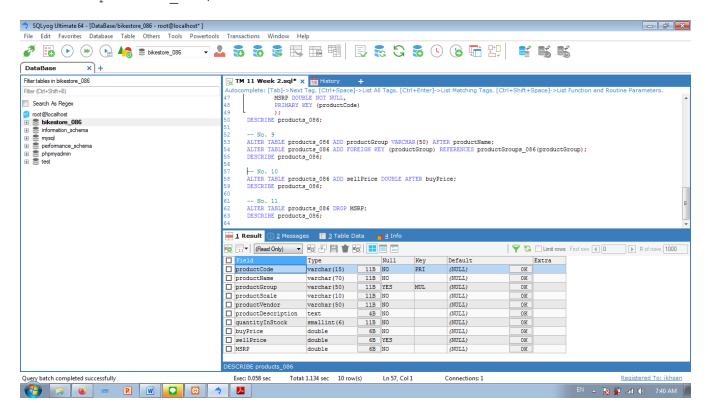
ALTER TABLE products_086 ADD productGroup VARCHAR(50) AFTER
productName;

ALTER TABLE products_086 ADD FOREIGN KEY (productGroup) REFERENCES productGroups_086 (productGroup);

DESCRIBE products 086;



ALTER TABLE products_086 ADD sellPrice DOUBLE AFTER buyPrice; DESCRIBE products 086;



-- No. 11

ALTER TABLE products_086 DROP MSRP;
DESCRIBE products 086;

