Tugas-02:

Buatlah ROLE dan HAK AKSES (GRANT)

terkait er-diagram pada tugas-01:

1. Database classicmodels.

2. Tabel 'customers' dalam database 'clasicmodels'.

```
MariaDB [classicmodels] create table customer(
-> customerNumber int(11) NOT NULL,
-> customerName varchar(50) NOT NULL,
-> contactLastName varchar(50) NOT NULL,
-> contactFirstName varchar(50) NOT NULL,
-> phone varchar(50) NOT NULL,
-> addressLine1 varchar(50) NOT NULL,
-> addressLine2 varchar(50) DEFAULT NULL,
-> city varchar(50) NOT NULL,
-> state varchar(50) DEFAULT NULL,
```

Field	: Type	Ĺ	Null	Key	İ	Default	Extra
customerName contactLastName contactFirstName phone addressLine1 addressLine2 city state	int(11) varchar(50) int(11) decimal(10,2)		NO NO NO NO NO YES NO YES NO YES			NOTT NOTT NOTT NOTT NOTT NOTT NOTT NOTT	

3. Tabel 'employees' dalam database 'clasicmodels'.

4. Tabel 'offices' dalam database 'clasicmodels'.

```
MariaDB Iclassicmodels1> CREATE TABLE offices (
-> officeCode varchar(10) NOT NULL,
-> city varchar(50> NOT NULL,
-> phone varchar(50> NOT NULL,
-> addressLine1 varchar(50> NOT NULL,
-> addressLine2 varchar(50> DEFAULT NULL,
-> state varchar(50> DEFAULT NULL,
-> country varchar(50> NOT NULL,
-> postalCode varchar(15> NOT NULL,
-> territory varchar(10> NOT NULL);
Query OK, 0 rows affected (0.33 sec)
```

5. Tabel 'orderdetails' dalam database 'clasicmodels'.

6. Tabel 'orders' dalam database 'clasicmodels'.

```
MariaDB [classicmodels]> CREATE TABLE orders (
-> orderNumber int(11) NOT NULL,
-> orderDate date NOT NULL,
-> requiredDate date NOT NULL,
-> shippedDate date DEFAULT NULL,
-> status varchar(15) NOT NULL,

    comments text,
    customerNumber int(11) NOT NULL );
    Query OK, Ø rows affected (0.24 sec)

 fariaDB [classicmodels]> desc orders;
   Field
                                                                     | Null | Key
                                                                                                                            Extra
                                         Type
                                                                                                     Default
   orderNumber
orderDate
requiredDate
shippedDate
status
                                                                         NO
                                                                                                      NULL
                                          int(11)
                                                                                                      NOTT
NOTT
NOTT
NOTT
NOTT
                                          date
                                                                         NO
YES
NO
YES
                                         date
date
varchar(15)
   comments
customerNumber
                                          text
int(11)
7 rows in set (0.07 sec)
```

7. Tabel 'payments' dalam database 'clasicmodels'.

8. Tabel 'productlines' dalam database 'classicmodels'.

9. Table 'products' dalam database 'classicmodels'.

```
MariaDB [classicmodels]> CREATE TABLE products (
-> productCode varchar(15) NOT NULL,
-> productName varchar(70) NOT NULL,
-> productLine varchar(50) NOT NULL,
-> productScale varchar(10) NOT NULL,
-> productDescription text NOT NULL,
-> quantityInStock smallint(6) NOT NULL,
-> buyPrice decimal(10,2) NOT NULL,
-> MSRP decimal(10,2) NOT NULL);
Query OK, 0 rows affected (0.18 sec)
  MariaDB [classicmodels]> desc products;
                                                                                                                                                                                                      | Extra
                                                                       l Type
                                                                                                                               Null | Key
                                                                                                                                                                           Default
                                                                           varchar(15)
varchar(70)
varchar(50)
varchar(10)
varchar(50)
       productCode
                                                                                                                                922999999
      productName
productLine
productScale
productVendor
      productDescription
quantityInStock
buyPrice
MSRP
                                                                           text
smallint(6)
decimal(10,2)
decimal(10,2)
       rows in set (0.01 sec)
```

10. Menambahkan data kedalam table 'customers'.

```
-> (486,'Motor Mint Distributors Inc.','Salazar','Rosa','2155559857','11328
Douglas Av.',NULL,'Philadelphia','PA','71270','USA',1323,'72600.00'),
-> (487,'Signal Collectibles Ltd.','Taylor','Sue','4155554312','2793 Furth ircle',NULL,'Brisbane','CA','94217','USA',1165,'60300.00'),
  -> (489,'Double Decker Gift Stores, Ltd','Smith','Thomas ','(171) 555-7555'
120 Hanover Sq.',NULL,'London',NULL,'WA1 1DP','UK',1501,'43300.00'),
      -> (495,'Diecast Collectables','Franco','Valarie','6175552555','6251 Ingle,NULL,'Boston','MA','51003','USA',1188,'85100.00'),
 ->
-> (496,'Kelly\'s Gift Shop','Snowden','Tony','+64 9 5555500','Arenales 1938
3\'A\'',NULL,'Auckland ',NULL,'NULL,'New Zealand',1612,'110000.00');
Query OK, 122 rows affected (0.12 sec)
Records: 122 Duplicates: 0 Warnings: 0
MariaDB [classicmodels]>
```

11. Menambahkan data kedalam table 'employees'.

```
-> <1611, 'Fixter', 'Andy', 'x101', 'afixter@classicmodelcars.com', '6',1088, 'Sa

Rep'>,

-> <1612, 'Marsh', 'Peter', 'x102', 'pmarsh@classicmodelcars.com', '6',1088, 'Sal

Rep'>,
     -> -> (1619, 'King','Tom','x103','tking@classicmodelcars.com','6',1088,'Sales
         (1621, 'Nishi', 'Mami', 'x101', 'mnishi@classicmodelcars.com', '5', 1056, 'Sale
         (1625, 'Kato', 'Yoshimi', 'x102', 'ykato@classicmodelcars.com', '5', 1621, 'Sal
     -> (1702, 'Gerard', 'Martin', 'x2312', 'mgerard@classicmodelcars.com', '4',1102,
ales Rep');
wery OK, 23 rows affected (0.10 sec)
ecords: 23 Duplicates: 0 Warnings: 0
MariaDB [classicmodels]>
```

12. Menambahkan data kedalam table 'offices'.

```
->
-> ('1','San Francisco','+1 650 219 4782','100 Market Street','Suite 300','C
,'USA','94080','NA'),
 -> ('2','Boston','+1 215 837 0825','1550 Court Place','Suite 102','MA','USA'
-> -> ('3','NYC','+1 212 555 3000','523 East 53rd Street','apt. 5A','NY','USA' 10022','NA'),
     ->
-> ('5','Tokyo','+81 33 224 5000','4-1 Kioicho',NULL,'Chiyoda-Ku','Japan','1
32-8578','Japan'),
-> ''6','Sydney','+61 2 9264 2451','5-11 Wentworth Avenue','Floor #2',NULL,'
Australia','NSW 2010','APAC'),
-> ''7','London','+44 20 7877 2041','25 Old Broad Street','Level 7',NULL,'UK
'','EC2N 1HN','EMEA');
Query OK, 7 rows affected (0.08 sec)
Records: 7 Duplicates: 0 Warnings: 0
```

13. Menambahkan data kedalam table 'orderdetails'.

```
(10425,'$18_2238',28,'147.36',3),
         (10425, '$18_2319', 38, '117.82', 7),
         (10425, '$18_2432', 19, '48.62', 10),
         (10425, '$18_3232', 28, '140.55', 8),
         (10425,'$18_4600',38,'107.76',13),
         (10425, '$24_1444', 55, '53.75', 1),
         (10425,'$24_2300',49,'127.79',9),
         (10425,'$24_2840',31,'31.82',5),
         (10425,'$32_1268',41,'83.79',11),
         (10425, '$32_2509', 11, '50.32', 6),
-> (10425,'850_1392',18,'94.92',2);
Query OK, 2996 rows affected (0.23 sec)
Records: 2996 Duplicates: 0 Warnings: 0
MariaDB [classicmodels]>
                                                                                      546354212437108311951162
                | $24_2840
| $32_1268
| $32_2509
| $50_1392
         10425
10425
2996 rows in set (0.01 sec)
MariaDB [classicmodels]>
```

14. Menambahkan data kedalam table 'orders'.

```
the scales of the models don't match what was discussed. I keep all the paper ork though to prove otherwise',471),

->
-> (10416,'2005-05-10','2005-05-16','2005-05-14','Shipped',NULL,386),
-> (10417,'2005-05-13','2005-05-19','2005-05-19','Disputed','Customer doesn't like the colors and precision of the models.',141),
->
-> (10418,'2005-05-16','2005-05-24','2005-05-20','Shipped',NULL,412),
-> (10419,'2005-05-17','2005-05-28','2005-05-19','Shipped',NULL,382),
-> (10420,'2005-05-29','2005-06-07',NULL,'In Process',NULL,282),
-> (10421,'2005-05-29','2005-06-06',NULL,'In Process','Gustom shipping instructions were sent to warehouse',124),
-> (10422,'2005-05-30','2005-06-11',NULL,'In Process',NULL,157),
-> (10423,'2005-05-30','2005-06-05',NULL,'In Process',NULL,141),
-> (10424,'2005-05-31','2005-06-08',NULL,'In Process',NULL,141),
-> (10425,'2005-05-31','2005-06-08',NULL,'In Process',NULL,119);
Query OK, 326 rows affected (0.16 sec)
Records: 326 Duplicates: 0 Warnings: 0
MariaDB [classicmodels]>
```

```
386 | 386 | 10417 | 2005-05-13 | 2005-05-19 | like the colors and precision of
                                                                         | Customer
 10418 | 2005-05-16 | 2005-05-24
                                         | 2005-05-20 | Shipped
                                                                         HULL
 10419 | 2005-05-17 | 2005-05-28
                                         : 2005-05-19 : Shipped
                                                                         HULL
                                                         ! In Process ! NULL
10421 | 2005-05-29 | 2005-06-06
instructions were sent
                                                         ! In Process ! Custom s
 10422 | 2005-05-30 | 2005-06-11
                                                         ! In Process ! NULL
157 ¦
10423 | 2005-05-30 | 2005-06-05
                                                         ! In Process ! NULL
10424 | 2005-05-31 | 2005-06-08
                                                         ! In Process ! NULL
 141 |
10425 | 2005-05-31 | 2005-06-07
                                                         ! In Process ! NULL
                                119 |
```

15. Menambahkan data kedalam table 'payments'.

```
(484,'GK294076','2004-10-26','3474.66'),
        (484,'JH546765','2003-11-29','47513.19')
        (486,'BL66528','2004-04-14','5899.38'),
        (486,'HS86661','2004-11-23','45994.07'),
        (486,'JB117768','2003-03-20','25833.14')
        (487,'AH612904','2003-09-28','29997.09')
        (487,'PT550181','2004-02-29','12573.28')
        (489,'0C773849','2003-12-04','22275.73')
        (489,'P0860906','2004-01-31','7310.42'),
        (495,'BH167026','2003-12-26','59265.14')
        (495,'FN155234','2004-05-14','6276.60'),
        <496,'EU531600','2005-05-25','30253.75'>
        (496,'MB342426','2003-07-16','32077.44')
 -/

-> (496,'MN89921','2004-12-31','52166.00');

ducry OK, 273 rows affected (0.14 sec)

decords: 273 Duplicates: 0 Warnings: 0
273 rows in set (0.00 sec)
MariaDB [classicmodels]>
```

16. Menambahkan data kedalam table 'productlines'. 'Trains','Model trains are a rewarding hobby for enthusiasts her you\'re looking for collectible wooden trains, electric st -> 'Trucks and Buses','The Truck and Bus models are realistic replicas of ses and specialized trucks produced from the early 1920s to present. The model range in size from 1:12 to 1:50 scale and include numerous limited edition and everal out-of-production vehicles. Materials used include tin, diecast and pla ic. All models include a certificate of authenticity from their manufacturers d are a perfect ornament for the home and office.',NULL,NULL>, re a perfect ornament for the home and office. NULL, NULL),

-> (Vintage Cars', 'Our Vintage Car models realistically portray automobile duced from the early 1900s through the 1940s. Materials used include Bakeli diecast, plastic and wood. Most of the replicas are in the 1:18 and 1:24 sca izes, which provide the optimum in detail and accuracy. Prices range from \$3 up to \$180.00 for some special limited edition replicas. All models include retificate of authenticity from their manufacturers and come fully assembled ready for display in the home or office.', NULL, NULL);

y OK, 7 rows affected (0.12 sec)

ords: 7 Duplicates: 0 Warnings: 0 I NULL : NULL :
Trucks and Buses : The Truck and Bus models are realistic replicas of buses a specialized trucks produced from the early 1920s to present. The models range in size from 1:12 to 1:50 scale and include numerous limited edition and severe out-of-production vehicles. Materials used include tin, diecast and plastic. A models include a certificate of authenticity from their manufacturers and are perfect ornament for the home and office. NULL : NULL ; NULL ; NULL ; Unitage Car models realistically portray automobiles produced from the early 1980s through the 1940s. Materials used include Bakelite, liecast, plastic and wood. Most of the replicas are in the 1:18 and 1:24 scale sizes, which provide the optimum in detail and accuracy. Prices range from \$30.00 up to \$180.00 for some special limited edition replicas. All models include a certificate of authenticity from their manufacturers and come fully assembled and ready for display in the home or office. NULL : NIILL : rows in set (0.00 sec) MariaDB [classicmodels]> 17. Menambahkan data kedalam table 'product'. > > ('S70<u>0_4002','American Airlines: MD-11S','Planes','1:700','Second Gear D:</u> ','Polished finish. Exact replia with official logos and insignias and ret le wheels',8820,'36.27','74.03'), > > ('872_1253','Boeing X-32A JSF','Planes','1:72','Motor City Art Classics' Wingspan with retractable landing gears.Comes with pilot',4857,'32.77','4 MariaDB [classicmodels]> 53.63 | 99.31 | | S700_4002 | American Airlines: MD-118 | Planes | Polished finish. Exact replia with | Ficial logos and insignias and retractable wheels 36.27 | 74.03 | S72_1253 | Boeing X-32A JSF | Planes | Pl 414 | 33.30 | 54.60 |

.10 rows in set (0.00 sec)

18. Membuat role pada table payment, customers, office.

19. Memberikan hak akses pada role.

MariaDB [classicmodels]> Grant all on classicmodels.* TO classicmode ERROR 1133 (28000): Can't find any matching row in the user table MariaDB [classicmodels]> Grant all on classicmodels.* TO classcmode Query OK, O rows affected (0.00 sec)

```
MariaDB lclassicmodels]> Grant select on classicmodels.* TO classic
ers;
Query OK, O rows affected (0.00 sec)
MariaDB [classicmodels]> GRANT insert,update,delete on classicmodels
cmodels_employees;
Query OK, O rows affected (0.00 sec)
MariaDB [classicmodels]> _
```

20. Membuat user account.

```
MariaDB [classicmodels] create user classcmodels_offices@localhost identified by 'secure$1782';
Query OK. Ø rows affected (Ø.00 sec)
MariaDB [classicmodels] create user classicmodels_costumers@localhost identified by 'secure$5432';
Query OK. Ø rows affected (Ø.00 sec)
MariaDB [classicmodels] create user classicmodels_employees@localhost identified by 'secure$9875';
Query OK. Ø rows affected (Ø.00 sec)
MariaDB [classicmodels] _
```

21. Memberikan hak akses role kepada user.

```
MariaDB [classicmodels]> grant classcmodels_offices to classcmodels_offices@localhost;
Query OK, Ø rows affected (0.00 sec)

MariaDB [classicmodels]> grant classicmodels_customers to classicmodels_cutomers
@localhost;
@ERROR 1959 (OP000): Invalid role specification `classicmodels_customers`.
MariaDB [classicmodels]> grant classicmodels_costumers to classicmodels_costumer
@Query OK, Ø rows affected (0.00 sec)

MariaDB [classicmodels]> grant classicmodels_employees to classicmodels_employee
@@localhost;
@Query OK, Ø rows affected (0.00 sec)

MariaDB [classicmodels]>
```

KETERANGAN:

- A. Pertama kita masuk ke mysql dengan:
 - Buka command prompt.
 - Nyalakan xampp: apache dan mysql
 - Masuk ke mysql : mysql –u root –p
- B. Membuat dan masuk ke database:
 - Perintah: create database classicmodels;
 - Perintah : use classic models;
- C. Setelah itu membuat tabel:
 - Perintah : create table customers();
- D. Menambahkan data kedalam tabel dengan perintah INSERT.
- E. Pastikan data dalam table dengan perintah SELECT.
- F. Setelah itu kita mulai membuat ROLE.
- G. Disini saya membuat 3 ROLE:
 - Saya memberikan hak akses penuh pada ROLE classicmodels_offices.

GRANT ALL ON classic models. * TO classic models. offices;

• Saya memberikan hak akses untuk SELECT atau membaca pada ROLE classicmodls.customers.

GRANT SELECT ON classic models.* TO

classicmodels.customers;

• Saya memberikan hak akses INSERT, UPATE, DELETE kepada ROLE classicmodels.employess.

GRANT INSERT, UPDATE, DELETE ON classic models.* TO classic models. employees.

- H. Membuat user account.
 - Perintah: create user classicmodels.offices@localhost identified by 'secreate';

(Berikan juga kepada customer dan employess.)

- I. Memberikan hak akses ROLE kepada setiap USER.
 - GRANT classic models. offices TO <u>classic models. offices@localhost</u>;

(Berikan kepada customer dan employess.)