



UTM
UNIVERSITI TEKNOLOGI MALAYSIA

SECD2523 - DATABASE
SEMESTER 1 2023/24

LAB 1
SQL1 - DDL

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SECTION : 01

Part 1

1. How many tables have been created using the CREATE TABLE statement?

10 tables

2. How many columns are created for the price history table?

6 columns

3. What statement is used to enforce the constraint that the category column of the items table must have a value?

NOT NULL constraint

4. What is the name of the foreign key constraint between the customers and customer addresses tables?

customer_address_customer_fk

5. What are the lowest and highest values that can be stored in the commission_rate column for the sales_representatives table?

-99 to 99

6. What are the lowest and highest values that can be stored in the price column for the price_history table?



-99999.99 to 99999.99


7. What are the 3 columns that make up the primary key for the price_history table?


- itm_number
- start_date
- start_time


PART 2


Modifying a column


  **Live SQL**


 Home


 **SQL Worksheet**


 My Session >

 Schema

 Quick SQL >

 My Scripts

 My Tutorials

 Code Library

SQL Worksheet

1 v

2

3

4

5

```
ALTER TABLE orders
MODIFY odr_date DATE DEFAULT SYSDATE;
DESCRIBE orders;
```

TABLE ORDERS

Column	Null?	Type
ID	NOT NULL	VARCHAR2(9)
ODR_DATE	NOT NULL	DATE
ODR_TIME	NOT NULL	DATE
NUMBER_OF_UNITS	NOT NULL	NUMBER(2,0)
CTR_NUMBER	NOT NULL	VARCHAR2(6)

Adding a check constraint

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Live SQL

Home

SQL Worksheet

My Session

Schema

Quick SQL

My Scripts

My Tutorials

Code Library

SQL Worksheet

1 ALTER TABLE customers

2 ADD CONSTRAINT chk_current_balance CHECK (current_balance >= 0);

3

4 DESCRIBE customers;

5

Table altered.

TABLE CUSTOMERS

Column	Null?	Type
CTR_NUMBER	NOT NULL	VARCHAR2(6)
EMAIL	NOT NULL	VARCHAR2(50)
FIRST_NAME	NOT NULL	VARCHAR2(20)
LAST_NAME	NOT NULL	VARCHAR2(30)
PHONE_NUMBER	NOT NULL	VARCHAR2(11)
CURRENT_BALANCE	NOT NULL	NUMBER(6,2)
SRE_ID	-	VARCHAR2(4)
TEM_ID	-	VARCHAR2(4)
LOYALTY_CARD_NUMBER	-	VARCHAR2(6)

Adding a column

SQL Worksheet

```
1 v ALTER TABLE customers
2   ADD mobile_phone VARCHAR2(11);
3
4 DESCRIBE customers;
5
```

TABLE CUSTOMERS

Column	Null?	Type
CTR_NUMBER	NOT NULL	VARCHAR2(6)
EMAIL	NOT NULL	VARCHAR2(50)
FIRST_NAME	NOT NULL	VARCHAR2(20)
LAST_NAME	NOT NULL	VARCHAR2(30)
PHONE_NUMBER	NOT NULL	VARCHAR2(11)
CURRENT_BALANCE	NOT NULL	NUMBER(6,2)
SRE_ID	-	VARCHAR2(4)
TEM_ID	-	VARCHAR2(4)
LOYALTY_CARD_NUMBER	-	VARCHAR2(6)
MOBILE_PHONE	-	VARCHAR2(11)

Dropping a column

SQL Worksheet

```
1 v ALTER TABLE customers
2 DROP COLUMN mobile_phone;
3
4 DESCRIBE customers;
5
```

Table altered.

TABLE CUSTOMERS

Column	Null?	Type
CTR_NUMBER	NOT NULL	VARCHAR2(6)
EMAIL	NOT NULL	VARCHAR2(50)
FIRST_NAME	NOT NULL	VARCHAR2(20)
LAST_NAME	NOT NULL	VARCHAR2(30)
PHONE_NUMBER	NOT NULL	VARCHAR2(11)
CURRENT_BALANCE	NOT NULL	NUMBER(6,2)
SRE_ID	-	VARCHAR2(4)
TEM_ID	-	VARCHAR2(4)
LOYALTY_CARD_NUMBER	-	VARCHAR2(6)