



UTM
UNIVERSITI TEKNOLOGI MALAYSIA

FACULTY OF COMPUTING
UTM Johor Bahru

SESSION 2023/2024 SEMESTER 1

SECD2523 - DATABASE

Lab Exercise 1

Name : **KUGANES VARMAN A/L BALAN**

Matric No. : **A22EC0176**

Section : **02**

Date : **05/11/2023**

Lecturer : **Dr. Izyan Izzati binti Kamsani**

Part 1

- 1) 10 Tables has been created
- 2) 6 columns
- 3) NOT NULL
- 4) ctr_number
- 5) minimum number :- 99
maximum number : 99
- 6) minimum : 00000.00
maximum : 99999.99
- 7) itm_number, stard_date, start_time

PART 2

Modify column

- 1) DESCRIBE orders;

Name	Null?	Type

ID	NOT NULL	VARCHAR2(9)
ODR_DATE	NOT NULL	DATE
ODR_TIME	NOT NULL	DATE
NUMBER_OF_UNITS	NOT NULL	NUMBER(2)
CTR_NUMBER	NOT NULL	VARCHAR2(6)

- 2) ALTER TABLE order
MODIFY odr_date DATE DEFAULT SYSDATE;
DESCRIBE order;

Table ORDERS altered.

Name	Null?	Type

ID	NOT NULL	VARCHAR2(9)
ODR_DATE	NOT NULL	DATE
ODR_TIME	NOT NULL	DATE
NUMBER_OF_UNITS	NOT NULL	NUMBER(2)
CTR_NUMBER	NOT NULL	VARCHAR2(6)

Adding a check constraint

1) DESCRIBE customers;

Name	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)

2) ALTER TABLE customers

ADD CONSTRAINT current_bal_min CHECK(current_balance >= 0);

Table CUSTOMERS altered.

Name	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

- 1) DESCRIBE customers; ALTER TABLE customers
Add another_phone_number(11); DESCRIBE customers;

Table CUSTOMERS altered.

Name	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)
ANOTHER_PHONE_NUMBER		VARCHAR2(11)

Dropping a column

- 1) DESCRIBE customers; ALTER TABLE customer
DROP(another_phone_number); DESCRIBE customers;

Table CUSTOMERS altered.

Name	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)