FACULTY OF COMPUTING
UTM Johor Bahru

SESSION 2023/2024 SEMESTER 1

SECD2523 - DATABASE

Lab Exercise 1

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Section : 02

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Lab Exercise 1

1   10 tables

2   6 columns

3   NOT NULL

4   ctr_number

5   min = -99
    max = 99

6   min = -99999.99
    max = 99999.99

7   itm_number, start_date, start_time

Part 2

a   i) DESCRIBE orders ;

    ii) ALTER TABLE orders
        MODIFY odr_date DATE DEFAULT SYSDATE ;

    iii) DESCRIBE orders ;

b   i) DESCRIBE customers

    ii) ALTER TABLE customers
        ADD CONSTRAINT cus_bal_min CHECK (current_balance >= 0) ;

    iii) DESCRIBE customers ;

c) i) DECRIBE customers

   ii) ALTER TABLE customers
       ADD phone number NUMBER (11);

   iii) DESCRIBE customers

d) i) DESCRIBE customers

   ii) ALTER TABLE customers
       DROP (phone number);

   iii) DESCRIBE customers;

OUTPUT LAB 1 (Part 2)

Question 1:

```
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)

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)
```

Question 2:

```
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)


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)
```

Question 3:

```
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)

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)
NEW_PHONE_NUMBER                  NUMBER(11)
```

Question 4:

```
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)
NEW_PHONE_NUMBER               NUMBER(11)


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)
```