DB Lab Exercise 1

Part 1

(1) 10 table

(2) 6 columns

(3) "NOT NULL" statement

(4) customer_ address_ customer_ file

(5) Highest value : 99

Lowest value = -99

(6) Highest value = 99999.99

Lowest value = -9999.99

(7) itm_number, start_time, start_date

Part 2

Modifying a column

(1.) DESCRIBE orders;

Column	Null?	Type
ID	NOT NULL	VARCHAR 2(9)
ODR_ DATE	NOT NULL	DATE
ODR_ TIME	NOT NULL	DATE
NUMBER_OF_UNITS	NOT NULL	NUMBER(2P)
CTR_ NUMBER	NOT NULL	VARCHAR2 (6)

(2) ALTER TABLE orders

Modify odr_date DATE DEFAULT SYSDATE;

(3) same as question 1

Adding a column

(1) DESCRIBE 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	NUMBER2 (6,2)
SRE_ID	—	VARCHAR2 (4)
TEM_ID	—	VARCHAR2 (4)
LOYALTY_CARD_NUMBER	—	VARCHAR2 (6)

(2) ALTER TABLE customers
    ADD mobile_phone_number VARCHAR2 (11);

(3) DESCRIBE customers,

-new column added on the last row

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)
CORRENT_NUMBER	NOT NULL	NUMBER (8,2)
SRE_ID	—	VARCHAR2 (4)
TEM_ID	—	VARCHAR2 (4)
LOYALTY_CARD_NUMBER	—	VARCHAR2 (6)
MOBILE_PHONE_NUMBER	—	VARCHAR2 (11)

Adding A check constraint

(1) DESCRIBE customers;

COLUMN	NULL ?	TYPE
CTR_NUMBER	NOT NULL	VARCHAR2 (6)
EMAIL	NOT NULL	VARCHAR2 (50)
FIRST_NAME	NOT NULL	AVARCHAR2 (20)
LAST_NAME	NOT NULL	VARCHAR2(30)
PHONE_NUMBER	NOT NULL	VARCHAR2 (11)
CURRENT_BALANCE	NOT NULL	VARCHA NUMBER(6,2)
SRE_ID	-	VARCHAR2(4)
TEM_ID	-	VARCHAR2 (4)
LOYALTY_CARD_NUMBER	-	VARCHAR2(6)

(2) ALTER TABLE customers
    ADD CONSTRAINT check_balance
    CHECK (current_balance >= 0);

(3) The output is the same in q1

(4) Constraints	Type	Condition	Related Constraint	Related Table
CHECK_BALANCE	Check	current_balance >=0	-	-

Constraint Columns	On Delete	Status
-	-	ENABLED

Deleting a column

(1) The same output as adding a column, question 3

(2) ALTER TABLE customers
    DROP COLUMN mobile_phone_number;

(3) DESCRIBE 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)