

## DB Lab 1

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Matrix: B23CS0056

Section: 02

## Part 1

1. 10 tables.
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 = -99999.99
7. itm\_number, start\_time, start\_date

## Part 2

Modifying a column.

1. DESCRIBE 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)

2. ALTER TABLE orders  
Modify odr\_date DATE DEFAULT SYSDATE;
3. same as question 1

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	VARCHAR2 (30)
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 check\_balance

CHECK (current\_balance >= 0);

3. the output is the same in question 1

constraints	Type	Condition	Related Constraint	Related table
CHECK_BALANCE	Check	current_balance >= 0	-	-

Constraint Columns	On Delete	Status
-	-	ENABLED



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(4)
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 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)
CURRENT_BALANCE	NOT NULL	NUMBER(6,2)
SRE_ID	-	VARCHAR2(4)
TEM_ID	-	VARCHAR2(4)
LOYALTY_CARD_NUMBER	-	VARCHAR2(6)
MOBILE_PHONE_NUMBER	-	VARCHAR2(11)

## ~~DE~~ 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)
SEE-ID	-	VARCHAR2(11)
TEM-ID	-	VARCHAR2(4)
LOYALTY-CARD-NUMBER	-	VARCHAR2(6)