	No.:	Date:
	Lab exercise!	
	Part 1	
12		
7)	6 column	
3)	MOT MULL	
115		
4)	ctr-mmber	
25	Lovest: -99	
	Highest: 99	·
	1. 6900000 90	
6)	Lowed: -9999999999	
	Highest: 9999999,99	
СГ	Primary key ( 1tm_number, sta	rt date, start-time)

## Modifying a column

1. Run the DESCRIBE command on the orders table to view its structure.

Name	Null?		Type	
ID ODR_DATE ODR_TIME NUMBER_OF_UNITS CTR_NUMBER	NOT NOT NOT	NULL NULL NULL	DATE	

2. Task: Add a default constraint that will use today's date to assign a value to the odr\_date column of the orders table if no date is provided.

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

3. Run the DESCRIBE command again to verify the command was successful.

```
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. Run the DESCRIBE command on the customers table to view its structure.

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. Task: Add a check constraint that will not allow the customers current balance to go below zero.

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

3. Run the DESCRIBE command again to verify the command was successful.

```
Table CUSTOMERS altered.
```

- 4. A check constraint is not shown in the results of a describe command.
  - a. Go to the Object Browser
  - b. Select the customers table.
  - c. Click on the CONSTRAINTS tab.
  - d. You will see your constraint here.

		SEARCH_CONDITION	R_OWNER	R_TABLE_NAME		DELETE_RULE		DEFERRABLE	
1 CHECK BALANCE	Check	current balance >= 0	(null)	(null)	(null)	(null)	ENABLED	NOT DEFERRABLE	VALIDATE

## Adding a column

The client has decided that they would like a separate column for the customer's mobile phone number. This is an optional column that will be required to store 11 digits.

1. Run the DESCRIBE command on the customers table to view its structure.

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. Task: Add column that will satisfy the clients requirements

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

3. Run the DESCRIBE command on the customers table to view its structure.

	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)	
ı	LOYALTY_CARD_NUMBER			VARCHAR2(6)	
	MOBILE_PHONE_NUMBER			VARCHAR2(11)	
П	I				

## Dropping a column

The client has decided that they don't need the mobile number column as most customers only provide a single contact number and that is already catered for with the existing phone\_number column.

1. Run the DESCRIBE command on the customers table to view its structure.

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

2. Task: Drop the column that was created to store the mobile phone number.

```
ALTER TABLE customers
DROP COLUMN mobile_phone_number;
```

3. Run the DESCRIBE command on the customers table to view its structure

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)		