

No.: .....

Part 1

1) 10

2) 6

3) NOT NULL

4) ctr-number

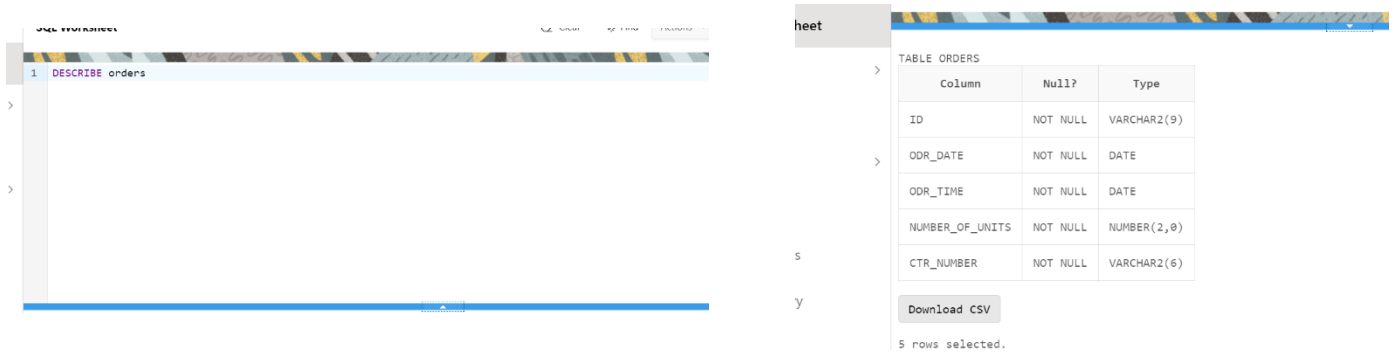
5) 1-99

6) 00000.00 - 99999.99

7) itm-number, start-date, start-time

## Modifying a column

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

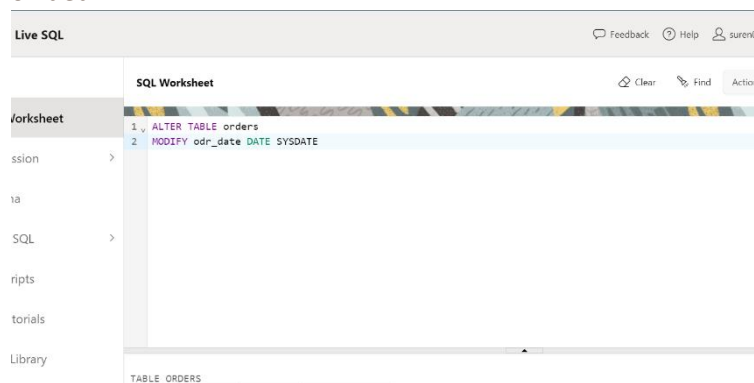


The screenshot shows the SQL Worksheet interface. The first line of the worksheet contains the command `DESCRIBE orders`. To the right, the results of the command are displayed as a table titled "TABLE ORDERS".

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)

Below the table, there is a "Download CSV" button and the text "5 rows selected."

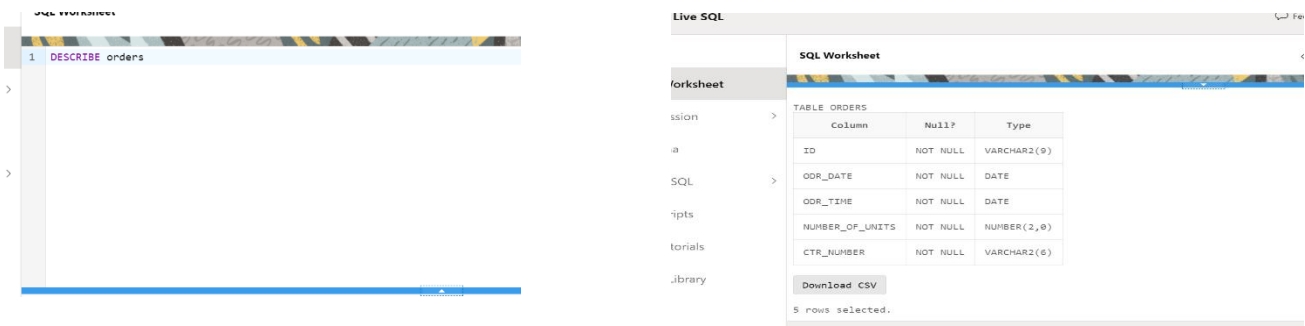
2. **Task:** Add a default constraint that will use today's date to assign a value to the odr\_date column of the orders table if no date is provided.



The screenshot shows the SQL Worksheet interface. The first two lines of the worksheet contain the following commands:

```
1 ALTER TABLE orders
2 MODIFY odr_date DATE SYSDATE
```

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



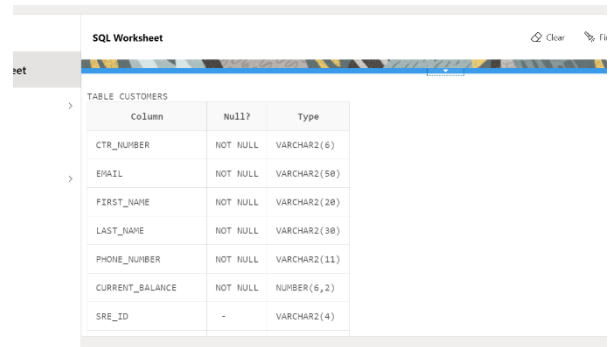
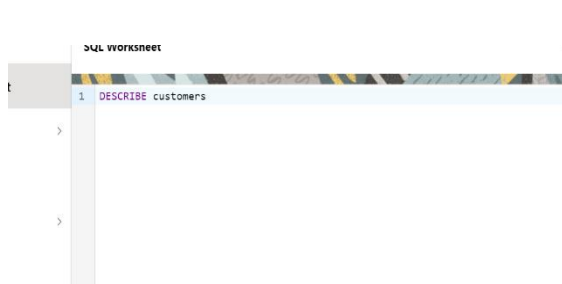
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ID	NOT NULL	VARCHAR2(9)
ODR_DATE	NOT NULL	DATE
ODR_TIME	NOT NULL	DATE
NUMBER_OF_UNITS	NOT NULL	NUMBER(2,0)
CTR_NUMBER	NOT NULL	VARCHAR2(6)

Below the table, there is a "Download CSV" button and the text "5 rows selected."

## Adding a check constraint

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

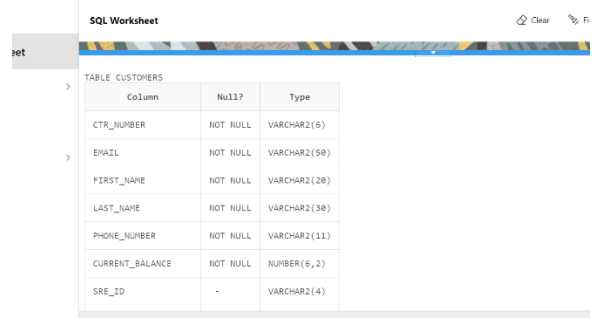
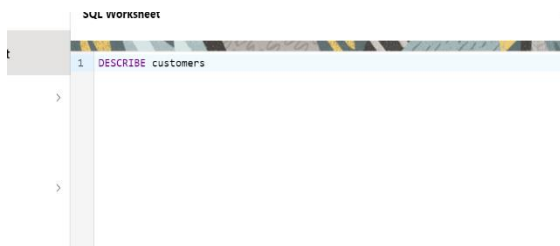


Column	Null?	Type
CTR_NUMBER	NOT NULL	VARCHAR2(6)
EMAIL	NOT NULL	VARCHAR2(50)
FIRST_NAME	NOT NULL	VARCHAR2(20)
LAST_NAME	NOT NULL	VARCHAR2(30)
PHONE_NUMBER	NOT NULL	VARCHAR2(11)
CURRENT_BALANCE	NOT NULL	NUMBER(6,2)
SRE_ID	-	VARCHAR2(4)

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

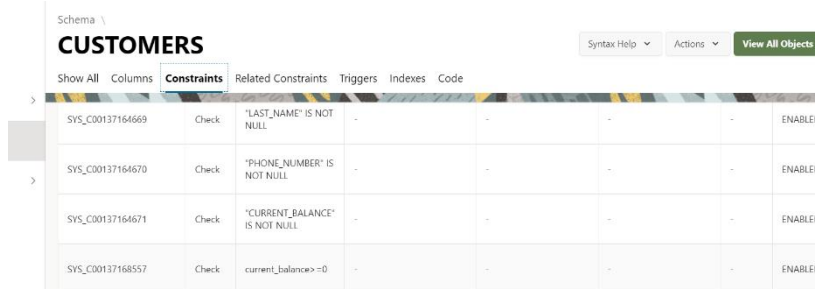


3. Run the DESCRIBE command again to verify the command was successful.



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)

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.



Constraint Name	Constraint Type	Constraint Expression	Enabled
SYS_C00137164669	Check	"LAST_NAME" IS NOT NULL	ENABLE
SYS_C00137164670	Check	"PHONE_NUMBER" IS NOT NULL	ENABLE
SYS_C00137164671	Check	"CURRENT_BALANCE" IS NOT NULL	ENABLE
SYS_C00137168557	Check	current_balance >= 0	ENABLE

## 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.

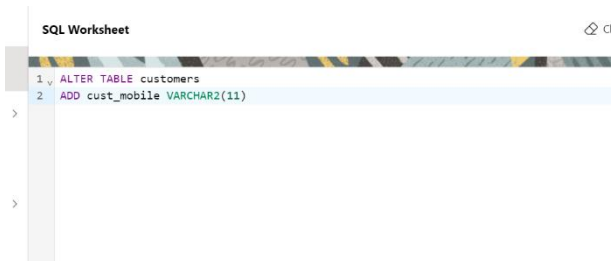
1. Run the DESCRIBE command on the customers table to view its structure.



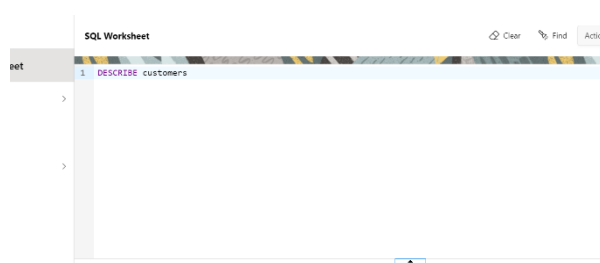
SQL Worksheet

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)

2. **Task:** Add column that will satisfy the clients requirements



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



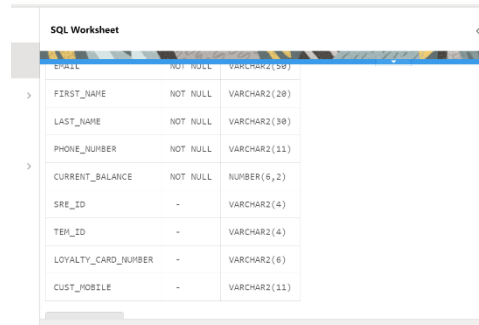
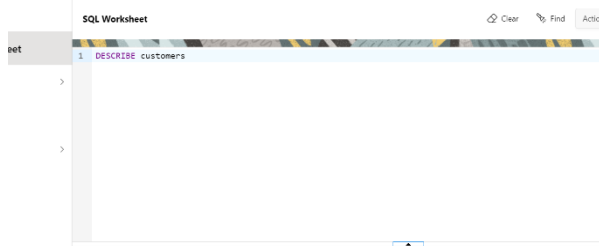
SQL Worksheet

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)
TEH_ID	-	VARCHAR2(4)
LOYALTY_CARD_NUMBER	-	VARCHAR2(6)
CUST_MOBILE	-	VARCHAR2(11)

## Dropping a column

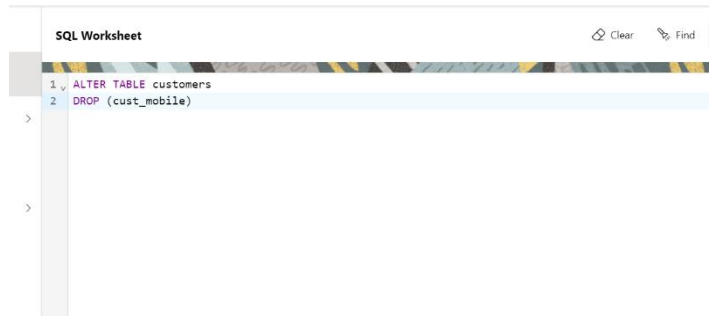
The client has decided that they don't need the mobile number column as most customers only provide a single contact number and that is already catered for with the existing phone\_number column.

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

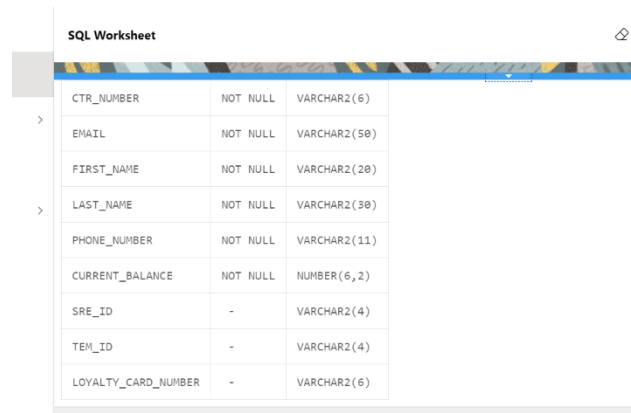
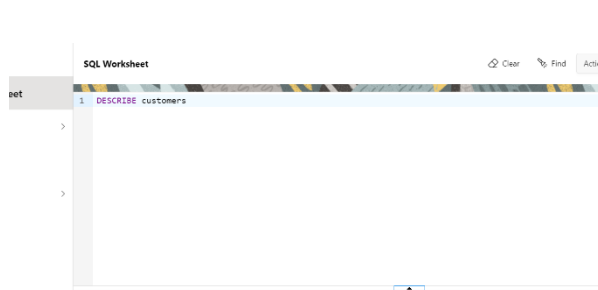


EMAIL	NOT NULL	VARCHAR2(50)
FIRST_NAME	NOT NULL	VARCHAR2(20)
LAST_NAME	NOT NULL	VARCHAR2(30)
PHONE_NUMBER	NOT NULL	VARCHAR2(11)
CURRENT_BALANCE	NOT NULL	NUMBER(6,2)
SRE_ID	-	VARCHAR2(4)
TEM_ID	-	VARCHAR2(4)
LOYALTY_CARD_NUMBER	-	VARCHAR2(6)
CUST_MOBILE	-	VARCHAR2(11)

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



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



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)