

# Lab Exercise 1

## Part 1

1) 10 tables

2) 6 columns

3) not null

4) Ctr\_number

5) min : -99

max : 99

6) min : -9999999.99

Max : 9999999.99

7) a. item\_number

b. start\_date

c. start\_time

## Part 2

### Modifying a column

- 1) DESCRIBE orders;
- 2) ALTER TABLE ORDERS  
MODIFY odr\_date DATE DEFAULT SYSDATE
- 3) DESCRIBE orders;

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) DESCRIBE customers;
- 2) ALTER TABLE customers  
ADD CONSTRAINT current\_balance\_min CHECK  
(current\_balance >= 0)
- 3) DESCRIBE customers;

4)

constraint_name	constraint_type	search_condition	r_owner	r_table_name	r_constraint_name	delete_rule	status	deferrable	validated	generated	bad	relax	last_change	index_owner	index_name	invalid
1 CHK_BALANCE	Check	current_balance >= 0	(null)	(null)	(null)	(null)	ENABLED	NOT DEFERRABLE	VALIDATED	USER NAME	(null)	(null)	01-NOV-23	(null)	(null)	(null)
2 CTR_EMAIL_UK	Unique	(null)	(null)	(null)	(null)	(null)	ENABLED	NOT DEFERRABLE	VALIDATED	USER NAME	(null)	(null)	01-NOV-23	SYSTEM	CTR_EMAIL_UK	(null)
3 CTR_LCN_UK	Unique	(null)	(null)	(null)	(null)	(null)	ENABLED	NOT DEFERRABLE	VALIDATED	USER NAME	(null)	(null)	01-NOV-23	SYSTEM	CTR_LCN_UK	(null)
4 CUSTOMER_PK	Primary_Key	(null)	(null)	(null)	(null)	(null)	ENABLED	NOT DEFERRABLE	VALIDATED	USER NAME	(null)	(null)	01-NOV-23	SYSTEM	CUSTOMER_PK	(null)
5 SYS_C008261	Check	"CTR_NUMBER" IS NOT NULL	(null)	(null)	(null)	(null)	ENABLED	NOT DEFERRABLE	VALIDATED	GENERATED NAME	(null)	(null)	01-NOV-23	(null)	(null)	(null)
6 SYS_C008262	Check	"EMAIL" IS NOT NULL	(null)	(null)	(null)	(null)	ENABLED	NOT DEFERRABLE	VALIDATED	GENERATED NAME	(null)	(null)	01-NOV-23	(null)	(null)	(null)
7 SYS_C008263	Check	"FIRST_NAME" IS NOT NULL	(null)	(null)	(null)	(null)	ENABLED	NOT DEFERRABLE	VALIDATED	GENERATED NAME	(null)	(null)	01-NOV-23	(null)	(null)	(null)
8 SYS_C008264	Check	"LAST_NAME" IS NOT NULL	(null)	(null)	(null)	(null)	ENABLED	NOT DEFERRABLE	VALIDATED	GENERATED NAME	(null)	(null)	01-NOV-23	(null)	(null)	(null)
9 SYS_C008265	Check	"PHONE_NUMBER" IS NOT NULL	(null)	(null)	(null)	(null)	ENABLED	NOT DEFERRABLE	VALIDATED	GENERATED NAME	(null)	(null)	01-NOV-23	(null)	(null)	(null)
10 SYS_C008266	Check	"CURRENT_BALANCE" IS NOT NULL	(null)	(null)	(null)	(null)	ENABLED	NOT DEFERRABLE	VALIDATED	GENERATED NAME	(null)	(null)	01-NOV-23	(null)	(null)	(null)

# Adding a column

## 1) DESCRIBE customers

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) ALTER TABLE customers  
ADD mobile\_phone VARCHAR2(11);

## 3) DESCRIBE customers

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)
MOBILE_PHONE		VARCHAR2(11)

# Dropping a column

1) DESCRIBE customers;

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)
MOBILE_PHONE		VARCHAR2(11)

2) ALTER TABLE customers  
DROP (mobile\_phone);

3) DESCRIBE customers;

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)