

Lab 1

Part 1

1. 10 tables

2. 6 columns

3. NOT NULL constraint

4. customer_address_customer_fk

5. -99 to 99

6. -99999.99 to 999999.99

7. itm_number, start_date, start_time

Part 2

Modifying a column

1.

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)

2.

ALTER TABLE orders

MODIFY odr_date DATE DEFAULT SYSDATE;

3.

1 describe orders;

ResultsExplainDescribeSaved SQLHistory

Object TypeTABLEObjectORDERS

Table	Column	Data Type	Length	Precision	Scale	Primary Key	Nullable	Default	Comment
ORDERS	ID	VARCHAR2	9	-	-	1	-	-	-
	ODR_DATE	DATE	7	-	-	-	-	SYSDATE	-
	ODR_TIME	DATE	7	-	-	-	-	-	-
	NUMBER_OF_UNITS	NUMBER	-	2	0	-	-	-	-
	CTR_NUMBER	VARCHAR2	6	-	-	-	-	-	-

Adding a check constraint

1.	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 CONSTRAINT check_current_balance CHECK (current_balance >= 0);

3.	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)

4.	CONSTRAINT_NAME	CONSTRAINT_TYPE	SEARCH_CONDITION
	CHECK_CURRENT_BALANCE	Check	current_balance >= 0

Adding a column

1.	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_number VARCHAR(11) ;

3.	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_NUMBER		VARCHAR2(11)

Dropping a column

1.	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_NUMBER		VARCHAR2(11)

2. ALTER TABLE customers
DROP COLUMN mobile_phone_number ;

3.	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)