

SED2523 - 03

## **DATABASE SECTION 03**

# **FACULTY OF COMPUTING**

# LAB EXERCISE 1 PART 1

NAME	NUHA BINTI MOHAMED
MATRIC NUMBER	A22EC0238
LECTURER'S NAME	DR IZYAN IZZATI BINTI KAMSANI

#### PART 1: READING INFORMATION FROM A SCRIPT

- 1. How many tables have been created using CREATE TABLE statements? 10 tables have been created using CREATE TABLE statements.
- 2. How many columns are created for the price history table? 6 columns are created for the price history table.
- 3. What statement is used to enforce the constraint that the category column of the items table must have a value?

NOT NULL

4. What is the name of the foreign key constraint between the customers and customer addresses tables?

ctr number

5. What are the lowest and highest values that can be stored in the commission\_rate column for the sales\_representatives table?

-99 to 99

6. What are the lowest and highest values that can be stored in the price column for the price\_history table?

-99999.99 to 99999.99

7. What are the 3 columns that make up the primary key for the price\_history table?

Itm number start date

start\_time

### PART 2: UPDATING CONSTRAINTS

### **MODIFYING A COLUMN**

- 1. DESCRIBE ORDERS
- 2. ALTER TABLE ORDERS MODIFY odr\_date DATE DEFAULT SYSDATE
- 3. DESCRIBE ORDERS

#### DESCRIBE ORDERS

### TABLE ORDERS

Column	Null?	Туре
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)

### **ADDING A CHECK CONSTRAINTS**

- 1. DESCRIBE CUSTOMERS
- 2. ALTER TABLE CUSTOMERS

  ADD CONSTRAINT current\_balance CHECK (current\_balance >= 0)
- 3. DESCRIBE CUSTOMERS

Constraint	Туре	Condition	Related Constraint
CURRENT_BALANCE	Check	current_balance >= 0	-

### **ADDING A COLUMN**

- 1. DESCRIBE CUSTOMERS
- 2. ALTER TABLE CUSTOMERS
  ADD mobile\_number VARCHAR (11)
- 3. DESCRIBE CUSTOMERS

DESCRIBE CUSTOMERS

#### TABLE CUSTOMERS

Column	Null?	Туре
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_NUMBER	-	VARCHAR2(11)

## **DROPPING A COLUMN**

- 1. DESCRIBE CUSTOMERS
- 2. ALTER TABLE CUSTOMERS DROP COLUMN mobile\_number
- 3. DESCRIBE CUSTOMERS

DESCRIBE CUSTOMERS

### TABLE CUSTOMERS

Column	Null?	Туре
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)