

# SECD2523 - SECTION 03 DATABASE SEMESTER I (2023/2024)

#### **ASSIGNMENT 1:**

Lab Exercise 1

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## Section 3 Lesson 3 Exercise: Data Definition Language Use DDL to build and maintain database tables (S6L3 Objective 3)

- Part 1: Reading information from a script In this exercise you will use the "obl Sports.ddl" file to consolidate your knowledge of DDL.
- 1. How many tables have been created using the CREATE TABLE statement?
- 10
- 2. How many columns are created for the price history table?
- 6
- 3. What statement is used to enforce the constraint that the category column of the items table must have a value?
- REFERENCES
- 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?
- lowest = -99, highest = 99
- 6. What are the lowest and highest values that can be stored in the price column for the price\_history table?
- 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
- 3. MODIFY odr date DATE DEFAULT SYSDATE
- 4. DESCRIBE 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 constraint

- 1. DESCRIBE CUSTOMERS
- 2. ALTER TABLE CUSTOMERS
- 3. ADD CONSTRAINT current\_balance CHECK (current\_balance >= 0)
- 4. DESCRIBE CUSTOMERS

Constraint	Туре	Condition	Related Constraint
CURRENT_BALANCE	Check	CURRENT_BALANCE > = 0	NT:

### Adding a column

- 1. DESCRIBE CUSTOMERS
- 2. ALTER TABLE CUSTOMERS
- 3. ADD mobile\_number VARCHAR (11)
- 4. DESCRIBE  $\overline{\text{CUSTOMERS}}$

ABLE 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
- 3. DROP COLUMN mobile\_number
- 4. <u>DESCRIBE CUSTOMERS</u>

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)		