

UNIVERSITI TEKNOLOGI MALAYSIA (UTM), JOHOR BAHRU

SECD2523-03

DATABASE SECT 03

TITLE:

LAB EXERCISE 1

STUDENT'S NAME:

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LECTURER'S NAME:

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DATE OF SUBMISSION:

Part 1: Reading information from a script

In this exercise you will use the "obl Sports.ddl" file to consolidate your knowledge of DDL. Open the "obl Sports.ddl" in a text editor.

- 1. How many tables have been created using the CREATE TABLE statement?

 10 tables
- 2. How many columns are created for the price history table? 6 columns
- 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?

Lowest is 1 and highest is 99

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

Lowest is 00000.01 and highest is 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

Task 1 : Modifying a column

DESCRIBE orders

ALTER TABLE orders
MODIFY odr_date DATE DEFAULT SYSDATE;

DESCRIBE orders

TABLE ORDERS				
Null?	Туре			
NOT NULL	VARCHAR2(9)			
NOT NULL	DATE			
NOT NULL	DATE			
NOT NULL	NUMBER(2,0)			
NOT NULL	VARCHAR2(6)			
	NOT NULL NOT NULL NOT NULL			

Task 2 : Adding a check constraint

DESCRIBE customers

ALTER TABLE customers
ADD CHECK (current_balance >= 0);

DESCRIBE customers

Constraints									
Constraint	Туре	Condition	Related Constraint	Related Table	Constraint Columns	On Delete	Status	Last Change	Invalid?
SYS_C00137173180	Check	"CTR_NUMBER" IS NOT NULL					ENABLED	7 minutes ago	
SYS_C00137173181	Check	"EMAIL" IS NOT NULL					ENABLED	7 minutes ago	
SYS_C00137173182	Check	"FIRST_NAME" IS NOT NULL					ENABLED	7 minutes ago	
SYS_C00137173183	Check	"LAST_NAME" IS NOT NULL					ENABLED	7 minutes ago	
SYS_C00137173184	Check	"PHONE_NUMBER" IS NOT NULL					ENABLED	7 minutes ago	
SYS_C00137173185	Check	"CURRENT_BALANCE" IS NOT NULL					ENABLED	7 minutes ago	
SYS_C00137173932	Check	current_balance >= 0					ENABLED	95 seconds ago	
CUSTOMER_SALES_REP_FK	Foreign Key		SALES_REPRESENTATIVE_PK	SALES_REPRESENTATIVES	SRE_ID	NO ACTION	ENABLED	7 minutes ago	
CUSTOMER_TEAM_FK	Foreign Key		TEAM_PK	TEAMS	TEM_ID	NO ACTION	ENABLED	7 minutes ago	
CUSTOMER_PK	Primary Key				CUSTOMER_ID		ENABLED	7 minutes ago	
CTR_EMAIL_UK	Unique Key				EMAIL		ENABLED	7 minutes ago	
CTR_LCN_UK	Unique Key				LOYALTY_CARD_NUMBER		ENABLED	7 minutes ago	

Task 3: Adding a column

DESCRIBE customers

ALTER TABLE customers ADD ctr_mobile NUMBER(11);

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)
CTR_MOBILE		NUMBER(11,0)

Task 4 : Dropping a column

DESCRIBE customers

ALTER TABLE customers DROP COLUMN ctr_mobile;

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)			