



UTM
UNIVERSITI TEKNOLOGI MALAYSIA

UNIVERSITI TEKNOLOGI MALAYSIA (UTM), CAMPUS SKUDAI

SECD2523

DATABASE

ASSIGNMENT TITLE:

Lab Exercise 1

PREPARED BY:

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SECTION:

SECD2523-03

LECTURER'S NAME:

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DATE OF SUBMISSION:

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Section 6 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.

Open the “obl Sports.ddl” in a text editor.

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?
itm_number VARCHAR2(10) 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, 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 0000000.01, highest is 9999999.99
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

TASK 1:

ALTER TABLE orders

MODIFY odr_date DATE DEFAULT SYSDATE;

TABLE ORDERS		
Column	Null?	Type
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)

TASK 2:

ALTER TABLE customers

ADD CHECK (current_balance >= 0);

Constraints									
Constraint	Type	Condition	Related Constraint	Related Table	Constraint Columns	On Delete	Status	Last Change	Invalid?
SYS_C00137169629	Check	"CTR_NUMBER" IS NOT NULL	-	-	-	-	ENABLED	5 minutes ago	-
SYS_C00137169630	Check	"EMAIL" IS NOT NULL	-	-	-	-	ENABLED	5 minutes ago	-
SYS_C00137169631	Check	"FIRST_NAME" IS NOT NULL	-	-	-	-	ENABLED	5 minutes ago	-
SYS_C00137169632	Check	"LAST_NAME" IS NOT NULL	-	-	-	-	ENABLED	5 minutes ago	-
SYS_C00137169633	Check	"PHONE_NUMBER" IS NOT NULL	-	-	-	-	ENABLED	5 minutes ago	-
SYS_C00137169634	Check	"CURRENT_BALANCE" IS NOT NULL	-	-	-	-	ENABLED	5 minutes ago	-
SYS_C00137170223	Check	current_balance >= 0	-	-	-	-	ENABLED	13 seconds ago	-
CUSTOMER_SALES_REP_FK	Foreign Key	-	SALES_REPRESENTATIVE_PK	SALES_REPRESENTATIVES	SRE_ID	NO ACTION	ENABLED	5 minutes ago	-
CUSTOMER_TEAM_FK	Foreign Key	-	TEAM_FK	TEAMS	TEM_ID	NO ACTION	ENABLED	5 minutes ago	-
CUSTOMER_PK	Primary Key	-	-	-	CUSTOMER_ID	-	ENABLED	5 minutes ago	-
CTR_EMAIL_UK	Unique Key	-	-	-	EMAIL	-	ENABLED	5 minutes ago	-
CTR_LCN_UK	Unique Key	-	-	-	LOYALTY_CARD_NUMBER	-	ENABLED	5 minutes ago	-

TASK 3:

ALTER TABLE customers

ADD mobile_phone_number NUMBER(11);

TABLE CUSTOMERS

Column	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	-	NUMBER(11,0)

TASK 4:

ALTER TABLE customers

DROP COLUMN mobile_phone_number;

TABLE CUSTOMERS		
Column	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)