CPCS-241 LAB Assignment

VIDEOS

COLUMN NAME	DATA TYPE	CONSTRAINT
V_ID	NUMBER(9)	PRIMARY KEY
V_NAME	VARCHAR2(300)	NOT NULL
V_DESCRIPTION	VARCHAR2(1000)	
VCAT_ID	NUMBER(9)	FOREIGN KEY (VIDEO_CATAGORY)

VIDEOS_CATAGORY

COLUMN NAME	DATA TYPE	CONSTRAINT
VCAT_ID	NUMBER(9)	PRIMARY KEY
VCAT_NAME	VARCHAR2(300)	NOT NULL
VCAT_DESCRIPTION	VARCHAR2(1000)	

VIDEO_COPIES

COLUMN NAME	DATA TYPE	CONSTRAINT
VCOP_ID	NUMBER(9)	PRIMARY KEY
VCOP_PURCHASED	DATE	
VCOP_STATUS	VARCHAR2(1000)	
V_ID	NUMBER(9)	FOREIGN KEY (VIDEOS)
VCOP_RENT	NUMBER	NOT NULL

CUSTOMERS

COLUMN NAME	DATA TYPE	CONSTRAINT
C_ID	NUMBER(9)	PRIMARY KEY
C_NAME	VARCHAR2(300)	NOT NULL
C_TYPE	VARCHAR2(30)	
C_NAT_ID	VARCHAR2(20)	NOT NULL, UNIQUE

RENTAL

COLUMN NAME	DATA TYPE	CONSTRAINT
R_ID	NUMBER(9)	PRIMARY KEY
V_ID	NUMBER(9)	FOREIGN KEY (VIDEOS)
C_ID	NUMBER(9)	FOREIGN KEY (VIDEO_COPIES)
R_START_DATE	DATE	
R_END_DATE	DATE	
R_RENT	NUMBER(9)	

Read carefully. Follow the sequence of tasks. Write the statements or program unit as working with SQL* Plus or SQL Developer.

1. User
   a. Create a user "VIDEO_RENTAL".
   b. Assign rights.

2. Tables
   a. Create tables
   b. Create Sequences for Primary Keys.

3. Video Category
   a. Insert two categories
      i. Action
      ii. Adventure

4. New Video
   a. Create a Program Unit to insert a new Video
      i. This unit should check the uniqueness of the video.
      ii. Add copies.

5. Videos
   a. Insert video info for "James Bond". Action category. Two copies. 10 rent.
   b. Insert video info for "Indiana Jones". Adventure category. Two copies. 10 rent.

6. Customer
   a. Create a Program Unit to insert a new customer
      i. This unit should check the uniqueness of the customer.
      ii. Insert one customer "Abdullah".

7. Rental
   a. Create a Program Unit to insert a rental Start transaction.
      i. This unit should check the uniqueness of the Transaction.
      ii. Insert one rental. Abdullah rents Indiana Jones.
   b. Create a Program Unit to insert a rental Close transaction.
      i. Show the rental amount for the transaction.

8. Reports
   a. All videos with ID, Name, Category, and Copies.
   b. All customers.
   c. Rental Information for customers.
   d. Rental Information Date Wise.