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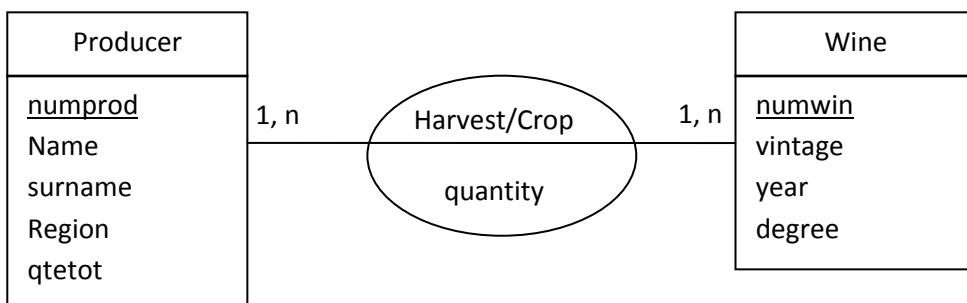
Ref : ADEO-M1-DB

Addressed to: ADEO M1 Students

Created on : 11/02/2015

1.1.1 Preamble

In this mini project, you work with the conceptual model of following data:



1. Establish the corresponding DLM
2. Study the script to create following tables
3. Study the following test game
4. For each Producer tables and wine Table write a trigger to generate automatically primary key (using a sequence)
5. Write in PL/SQL a trigger (trigger) to update the Total quantity attribute (qtetot) to each inserting a row in the Crops table
6. Write in PL/SQL a trigger (trigger) to update the Total quantity attribute (qtetot) to each updating a row in the harvest table
7. Write the procedure for creating a new producer. This new producer will have a couple (name, surname) different from all existing couples. This procedure will display a message to indicate whether the operation was successful.
8. Resume the previous question by dealing with errors RAISE_APPLICATION_ERROR function. Reminder: the error must be an integer less than -20000. Any greater than or equal code is reserved by Oracle.
9. Write a function that receives the identifier of a wine and that returns a string containing the characteristics of this wine.
10. Write procedure named reporting_crops that receives the name and surname of a producer call the previous function and display:
 - Its production region and the total quantity produced
 - An array of crops ordered by type of wine
11. Within the framework using of a more global a management, asks you to create a package named pck_prod_vin which includes these procedures and functions.

 EISTI Ecole Internationale des Sciences du Traitement de l'Information	ADEO M1 : MINI PROJECT DATABASES
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Appendices: Scripts

```
DROP TABLE Crop;
DROP TABLE Wine;
DROP TABLE Producer;
```

```
CREATE TABLE Wine
-- Creation of table
(numwin varchar(5) constraint pk_wine primary key,
vintage varchar(10),
annee number(4),
degre number(4,1)
);
```

```
CREATE TABLE Producer
-- Creation of table
(numprod varchar(5) constraint pk_prod primary key,
name varchar(30),
surname varchar(30),
region varchar(30),
qtetot number(10,2) default 0
);
```

```
CREATE TABLE Crop
-- Creation of table
(numwin varchar(5),
numprod varchar(5),
quantity number(6,2),
constraint pk_crop primary key(numwin,numprod)
);
```

```
-- script of creation of foreign keys
```

```
ALTER TABLE Crop add constraint fk_Crop1 foreign key(numwin)
REFERENCES Wine(numwin);
ALTER TABLE Crop add constraint fk_Crop2 foreign key(numprod)
REFERENCES Producer(numprod);
```

```
-- example of test game
```

```
INSERT into Wine VALUES ('v1','c1',1994,12);
INSERT into Wine VALUES ('v2','c1',1994,13);
INSERT into Wine VALUES ('v3','c2',1992,10);
```

DATABASES

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```

INSERT into Producer VALUES ('p1','Rotchild',"Beaujolais",0);
INSERT into Producer VALUES ('p2','Chateau Louis',"Loire",0);
INSERT into Producer VALUES ('p3','JC et Fils',"Beaujolais",0);
INSERT into Producer VALUES ('p4','Domaine de la bourdonnaise',"Loire",0);
INSERT into Crop VALUES ('v1','p1',100);
INSERT into Crop VALUES ('v2','p1',200);
INSERT into Crop VALUES ('v3','p1',100);
INSERT into Crop VALUES ('v1','p2',100);
INSERT into Crop VALUES ('v2','p3',200);
INSERT into Crop VALUES ('v3','p4',100);
-----
```

-- mise à jour explicite car trigger non encore créée

```

UPDATE Producer SET qtetot = 400 WHERE numprod = 'p1';
UPDATE Producer SET qtetot = 100 WHERE numprod = 'p2';
UPDATE Producer SET qtetot = 200 WHERE numprod = 'p3';
UPDATE Producer SET qtetot = 100 WHERE numprod = 'p4';
```