

TP3 Question 16 ABDD

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Avant la création des tables:

```
no rows selected

SQL> select COLUMN_NAME from USER_TAB_COLUMNS;

no rows selected

SQL> 
```

```
Connected.
SQL> select TABLE_NAME from USER_TABLES;

no rows selected

SQL> 
```

Après Création des tables

```
Table created.
SQL> select TABLE_NAME from USER_TABLES;

TABLE_NAME
-----
SPORTIFS
SPORTS
GYMNASES
ARBITRER
ENTRAINER
JOUER
SEANCES
TABLEERREURS

8 rows selected.

SQL> 
```

29 rows selected.

SQL> select CONSTRAINT_NAME from USER_CONSTRAINTS;

CONSTRAINT_NAME

CS_SEXE

PK_SPORTIFS

FK_SPORTIFS

PK_SPORTS

PK_GYMNASES

PK_ARBITRER

FK_SPORTIF_ARBITRER

FK_SPORTIF_ARBITRER

PK_ENTRAINER

FK_SPORTIFS_ENTRAINER

FK_SPORTIFS_ENTRAINEUR2

CONSTRAINT_NAME

PK_JOUER

FK_SPORT_JOUER

FK_SPORTIFS_JOUER

CK_JOUR

PK_SEANCES

FK_SEANCES_GYMNASE

FK_SEANCES_SPORT

FK_SEANCES_ENRTRAINER

19 rows selected.

SQL> █

```
SQL> select COLUMN_NAME from USER_TAB_COLUMNS;

COLUMN_NAME
-----
IDSPORTIFme
IDSPORT
IDSPORTIFENTRAINEUR
IDSPORT
IDGYMNASEments
NOMGYMNASE
ADRESSEdownloads
VILLEMusic
SURFACEPictures
IDSPORTIF
IDSPORT
COLUMN_NAME
-----
IDGYMNASE
IDSPORT
IDSPORTIFENTRAINEUR
JOUR
HORAIRE
DUREE
IDSPORTIFyear
NOM
PRENOMPython
SEXE
AGEGoogleCourses
COLUMN_NAME
-----
IDSPORTIFCONSEILLER
IDSPORTode
LIBELLE
ADRESSEprograms
UTILISATEUR
NOMTABLEe
NOMCONTRAINTe
+ Other Locations
29 rows selected.

SQL>
```

Autres Étapes et leurs outputs:

```
SQL> select TABLE_NAME from USER_TABLES;
```

```
SQL> ALTER TABLE GYMNASES
2 ADD DATECREATION date;
```

```
Table altered.
```

```
SQL> select table_name , column_name, data_type from USER_TAB_COLUMNS;
```

```
TABLE_NAME COLUMN_NAME
```

```
-----
```

```
DATA_TYPE
```

```
-----
```

```
ARBITRER IDSPORTIF
```

```
NUMBER
```

```
ARBITRER IDSPORT
```

```
NUMBER
```

```
ENTRAINER IDSPORTIFENTRAINEUR
```

```
NUMBER
```

```
TABLE_NAME COLUMN_NAME
```

```
-----
```

```
DATA_TYPE
```

```
-----
```

```
ENTRAINER IDSPORT
```

```
NUMBER
```

```
GYMNASES IDGYMNASE
```

```
NUMBER
```

```
GYMNASES NOMGYMNASE
```

```
VARCHAR2
```

```
TABLE_NAME COLUMN_NAME
```

```
-----
```

```
DATA_TYPE
```

```
-----
```

```
GYMNASES ADRESSE
```

```
VARCHAR2
```

```
GYMNASES VILLE
```

```
VARCHAR2
```

```
GYMNASES SURFACE
```

```
NUMBER
```

```
TABLE_NAME COLUMN_NAME
```

```
-----
```

```
DATA_TYPE
```

```
-----
```

```
GYMNASES DATECREATION
```

```
DATE
```

```
JOUER IDSPORTIF
```

```
NUMBER
```

JOUER IDSPORT
NUMBER

TABLE_NAME COLUMN_NAME

DATA_TYPE

SEANCES IDGYMNASE

NUMBER

SEANCES IDSPORT

NUMBER

SEANCES IDSPORTIFENTRAINEUR

NUMBER

TABLE_NAME COLUMN_NAME

DATA_TYPE

SEANCES JOUR

VARCHAR2

SEANCES HORAIRE

FLOAT

SEANCES DUREE

NUMBER

TABLE_NAME COLUMN_NAME

DATA_TYPE

SPORTIFS IDSPORTIF

NUMBER

SPORTIFS NOM

VARCHAR2

SPORTIFS PRENOM

VARCHAR2

TABLE_NAME COLUMN_NAME

DATA_TYPE

SPORTIFS SEXE

VARCHAR2

SPORTIFS AGE

NUMBER

```
SPORTIFS IDSPORTIFCONSEILLER  
NUMBER
```

```
TABLE_NAME COLUMN_NAME
```

```
-----
```

```
DATA_TYPE
```

```
-----
```

```
SPORTS IDSPORT
```

```
NUMBER
```

```
SPORTS LIBELLE
```

```
VARCHAR2
```

```
TABLEERREURS ADRESSE
```

```
ROWID
```

```
TABLE_NAME COLUMN_NAME
```

```
-----
```

```
DATA_TYPE
```

```
-----
```

```
TABLEERREURS UTILISATEUR
```

```
VARCHAR2
```

```
TABLEERREURS NOMTABLE
```

```
VARCHAR2
```

```
TABLEERREURS NOMCONTRAINTTE
```

```
VARCHAR2
```

```
30 rows selected.
```

```
SQL> select table_name , column_name, data_type from USER_TAB_COLUMNS  
where table_name='GYMNASES';
```

```
TABLE_NAME COLUMN_NAME
```

```
-----
```

```
DATA_TYPE
```

```
-----
```

```
GYMNASES IDGYMNASE
```

```
NUMBER
```

```
GYMNASES NOMGYMNASE
```

```
VARCHAR2
```

```
GYMNASES ADRESSE
```

```
VARCHAR2
```

```
TABLE_NAME COLUMN_NAME
```

```
-----
```

```
DATA_TYPE
```

```
-----  
GYMNASES VILLE  
VARCHAR2  
GYMNASES SURFACE  
NUMBER  
GYMNASES DATECREATION  
DATE
```

6 rows selected.

```
SQL> ALTER TABLE Sportifs  
2 ADD CONSTRAINT ch_Sexenotnull CHECK(Sexe IS NOT NULL);
```

Table altered.

```
SQL> desc USER_CONSTRAINTS;  
Name Null? Type
```

```
-----  
OWNER VARCHAR2(120)  
CONSTRAINT_NAME NOT NULL VARCHAR2(30)  
CONSTRAINT_TYPE VARCHAR2(1)  
TABLE_NAME NOT NULL VARCHAR2(30)  
SEARCH_CONDITION LONG  
R_OWNER VARCHAR2(120)  
R_CONSTRAINT_NAME VARCHAR2(30)  
DELETE_RULE VARCHAR2(9)  
STATUS VARCHAR2(8)  
DEFERRABLE VARCHAR2(14)  
DEFERRED VARCHAR2(9)  
VALIDATED VARCHAR2(13)  
GENERATED VARCHAR2(14)  
BAD VARCHAR2(3)  
RELY VARCHAR2(4)  
LAST_CHANGE DATE  
INDEX_OWNER VARCHAR2(30)  
INDEX_NAME VARCHAR2(30)  
INVALID VARCHAR2(7)  
VIEW_RELATED VARCHAR2(14)
```

```
SQL> select CONSTRAINT_NAME from USER_CONSTRAINTS;
```

```
CONSTRAINT_NAME  
-----  
CS_SEXE
```

```
PK_SPORTIFS
FK_SPORTIFS
PK_SPORTS
PK_GYMNASES
PK_ARBITRER
FK_SPORTIF_ARBITRER
FK_SPORT_ARBITRER
PK_ENTRAINER
FK_SPORTIFS_ENTRAINER
FK_SPORTIFS_ENTRAINEUR2
```

```
CONSTRAINT_NAME
-----
PK_JOUER
FK_SPORT_JOUER
FK_SPORTIFS_JOUER
CK_JOUR
PK_SEANCES
FK_SEANCES_GYMNASE
FK_SEANCES_SPORT
FK_SEANCES_ENRTRAINER
CH_SEXENOTNULL
```

20 rows selected.

```
SQL> ALTER TABLE Sportifs
2 ADD CONSTRAINT ch_Agenotnull CHECK(Age IS NOT NULL);
```

Table altered.

```
SQL> select CONSTRAINT_NAME from USER_CONSTRAINTS;
```

```
CONSTRAINT_NAME
-----
CS_SEXE
PK_SPORTIFS
FK_SPORTIFS
PK_SPORTS
PK_GYMNASES
PK_ARBITRER
FK_SPORTIF_ARBITRER
FK_SPORT_ARBITRER
PK_ENTRAINER
FK_SPORTIFS_ENTRAINER
```


FK_SPORTIFS_ENTRAINEUR2

CONSTRAINT_NAME

PK_JOUER

FK_SPORT_JOUER

FK_SPORTIFS_JOUER

CK_JOUR

PK_SEANCES

FK_SEANCES_GYMNASE

FK_SEANCES_SPORT

FK_SEANCES_ENRTRAINER

CH_SEXENOTNULL

CH_AGENOTNULL

21 rows selected.

SQL> ALTER TABLE Sportifs

2 MODIFY Prenom VARCHAR2(60);

Table altered.

SQL> select TABLE_NAME, COLUMN_NAME, DATA_TYPE from
USER_TAB_COLUMNS where TABLE_NAME='SPORTIFS';

TABLE_NAME COLUMN_NAME

DATA_TYPE

SPORTIFS IDSPORTIF

NUMBER

SPORTIFS NOM

VARCHAR2

SPORTIFS PRENOM

VARCHAR2

TABLE_NAME COLUMN_NAME

DATA_TYPE

SPORTIFS SEXE

VARCHAR2

SPORTIFS AGE

```
NUMBER
SPORTIFS IDSPORTIFCONSEILLER
NUMBER
```

6 rows selected.

```
SQL> ALTER TABLE GYMNASES
2 DROP COLUMN DATECREATION;
```

Table altered.

```
SQL> select TABLE_NAME, COLUMN_NAME, DATA_TYPE from
USER_TAB_COLUMNS where TABLE_NAME='GYMNASES';
```

```
TABLE_NAME COLUMN_NAME
-----
DATA_TYPE
-----
GYMNASES IDGYMNASE
NUMBER
GYMNASES NOMGYMNASE
VARCHAR2
GYMNASES ADRESSE
VARCHAR2
```

```
TABLE_NAME COLUMN_NAME
-----
DATA_TYPE
-----
GYMNASES VILLE
VARCHAR2
GYMNASES SURFACE
NUMBER
```

```
SQL> ALTER TABLE GYMNASES
2 RENAME COLUMN Adresse TO ADRESSEGYM ;
```

Table altered.

```
SQL> select TABLE_NAME, COLUMN_NAME, DATA_TYPE from
USER_TAB_COLUMNS where TABLE_NAME='GYMNASES';
```

```
TABLE_NAME COLUMN_NAME
-----
```

DATA_TYPE

GYMNASES IDGYMNASE

NUMBER

GYMNASES NOMGYMNASE

VARCHAR2

GYMNASES ADRESSEGYM

VARCHAR2

TABLE_NAME COLUMN_NAME

DATA_TYPE

GYMNASES VILLE

VARCHAR2

GYMNASES SURFACE

NUMBER

SQL> ALTER TABLE Sports

2 ADD CONSTRAINT ch_LIBELLE check (Libelle in ('Basket ball','Volley
ball','Hand ball','Tennis', 'Hockey', 'Badmington','Ping pong','Football', 'Boxe'))
3 ;

Table altered.

SQL> select CONSTRAINT_NAME from USER_CONSTRAINTS where
CONSTRAINT_NAME='CH_LIBELLE';

CONSTRAINT_NAME

CH_LIBELLE

SQL> desc sportifs;

Name Null? Type

IDSPORTIF NOT NULL NUMBER

NOM VARCHAR2(50)

PRENOM VARCHAR2(60)

SEXE VARCHAR2(1)

AGE NUMBER

IDSPORTIFCONSEILLER NUMBER

SQL> alter table sportifs rename column NOM TO NAME;

Table altered.

```
SQL> select TABLE_NAME, COLUMN_NAME, DATA_TYPE from  
USER_TAB_COLUMNS where TABLE_NAME='SPORTIFS';
```

TABLE_NAME	COLUMN_NAME	DATA_TYPE
SPORTIFS	IDSPORTIF	NUMBER
SPORTIFS	NAME	VARCHAR2
SPORTIFS	PRENOM	VARCHAR2

TABLE_NAME	COLUMN_NAME	DATA_TYPE
SPORTIFS	SEXE	VARCHAR2
SPORTIFS	AGE	NUMBER
SPORTIFS	IDSPORTIFCONSEILLER	NUMBER

6 rows selected.

```
SQL> alter table sportifs add newCOLUMN VARCHAR(20);
```

Table altered.

```
SQL> select TABLE_NAME, COLUMN_NAME, DATA_TYPE from  
USER_TAB_COLUMNS where TABLE_NAME='SPORTIFS';
```

TABLE_NAME	COLUMN_NAME	DATA_TYPE
SPORTIFS	IDSPORTIF	NUMBER
SPORTIFS	NAME	VARCHAR2

```
SPORTIFS PRENOM  
VARCHAR2
```

```
TABLE_NAME COLUMN_NAME
```

```
DATA_TYPE
```

```
SPORTIFS SEXE
```

```
VARCHAR2
```

```
SPORTIFS AGE
```

```
NUMBER
```

```
SPORTIFS IDSPORTIFCONSEILLER
```

```
NUMBER
```

```
TABLE_NAME COLUMN_NAME
```

```
DATA_TYPE
```

```
SPORTIFS NEWCOLUMN
```

```
VARCHAR2
```

```
7 rows selected.
```

```
SQL> select TABLE_NAME, COLUMN_NAME, DATA_TYPE from  
USER_TAB_COLUMNS where
```

```
2
```

```
SQL> select column_name from user_tab_columns;
```

```
COLUMN_NAME
```

```
IDSPORTIF
```

```
IDSPORT
```

```
IDSPORTIFENTRAINEUR
```

```
IDSPORT
```

```
IDGYMNASE
```

```
NOMGYMNASE
```

```
ADRESSEGYM
```

```
VILLE
```

```
SURFACE
```

```
IDSPORTIF
```

```
IDSPORT
```

```
COLUMN_NAME
```

```
IDGYMNASE
IDSPORT
IDSPORTIFENTRAINEUR
JOUR
HORAIRE
DUREE
IDSPORTIF
NAME
PRENOM
SEXE
AGE
```

```
COLUMN_NAME
-----
IDSPORTIFCONSEILLER
NEWCOLUMN
IDSPORT
LIBELLE
ADRESSE
UTILISATEUR
NOMTABLE
NOMCONTRAINT
```

```
30 rows selected.
```

```
SQL> ALTER table sportifs add constraint ck_question16 check (name in
('name1', 'name2'));
```

```
Table altered.
```

```
SQL> select CONSTRAINT_NAME from USER_CONSTRAINTS;
```

```
CONSTRAINT_NAME
-----
CS_SEXE
PK_SPORTIFS
FK_SPORTIFS
PK_SPORTS
PK_GYMNASES
PK_ARBITRER
FK_SPORTIF_ARBITRER
```

```
FK_SPORT_ARBITRER  
PK_ENTRAINER  
FK_SPORTIFS_ENTRAINER  
FK_SPORTIFS_ENTRAINEUR2
```

```
CONSTRAINT_NAME  
-----  
PK_JOUER  
FK_SPORT_JOUER  
FK_SPORTIFS_JOUER  
CK_JOUR  
PK_SEANCES  
FK_SEANCES_GYMNASE  
FK_SEANCES_SPORT  
FK_SEANCES_ENRTRAINER  
CH_SEXENOTNULL  
CH_AGENOTNULL  
CH_LIBELLE
```

```
CONSTRAINT_NAME  
-----  
CK_QUESTION16
```

```
23 rows selected.
```

```
SQL> spool off
```

