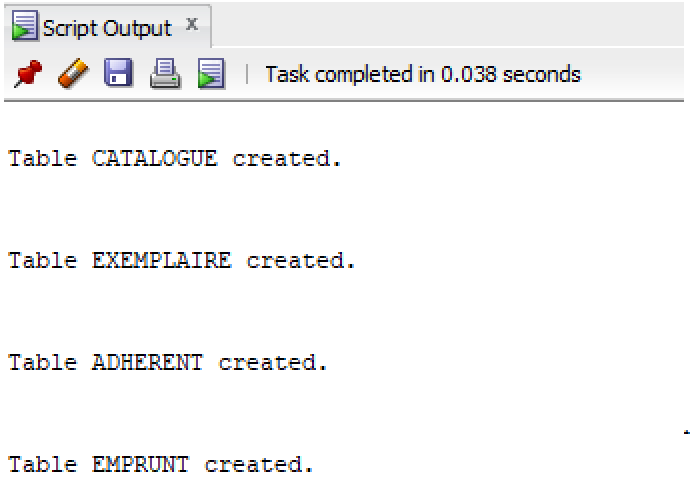
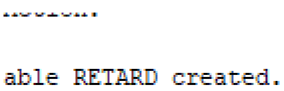
```
/* creation des tables */

CREATE TABLE catalogue(
codeg number(10) constraint pk_catalogue primary key,
titre varchar2(200) NOT NULL,
NomAut  varchar2(80) NOT NULL,
prenomAut  varchar2(80) NOT NULL,
anEd number (4),
editeur varchar(50) NOT NULL,
domaine varchar(50),
Prix Number(8,3));



create table exemplaire(
codexp VARCHAR(10),
codeg number(10) NOT NULL,
etat char(8) NOT NULL,
disp char(3) NOT NULL,
constraint pk_exemplaire primary key(codexp),
constraint fk_exemplaire_catalogue foreign key(codeg) references catalogue(codeg),
constraint ck_exemplaire_etat check (etat IN ('bon','moyen','mediocre')),
 constraint ck_exemplaire_disp check (disp IN ('oui','non')));

create table Adherent(
noAdh number(6) constraint pk_membres primary key,
nom varchar2(80) NOT NULL,
prenom varchar2(80) NOT NULL,
adresse varchar2(200) NOT NULL,
ncin NUMBER (8) UNIQUE,
tel NUMBER(10),
dateAdh DATE NOT NULL,
email VARchar(80) NOT NULL);

CREATE TABLE Emprunt(
codexp varchar(10) NOT NULL,
dateEmp DATE NOT NULL,
noAdh number(6) NOT NULL,
dateRprevue DATE NOT NULL,
datereffective DATE,
constraint fk_emprunts_codexp foreign key (codexp)references exemplaire(codexp),
constraint fk_emprunts_adh foreign key (noAdh) references adherent (noadh),
constraint pk_emprunts primary key (codexp, dateemp));

/*****table retard***/

CREATE TABLE retard(
        noadh number(6) NOT NULL,
        codeg number(10) NOT NULL,
        dateEmp DATE NOT NULL,
        datereffective DATE,
        penalite number NOT NULL,
        encours char(3) NOT NULL,
        constraint fk_retard_codeg foreign key (codeg) references catalogue(codeg),
        constraint fk_retard_adh foreign key (noAdh) references adherent(noadh),
        constraint pk_retard primary key(noadh, codeg, dateemp)
        );
```

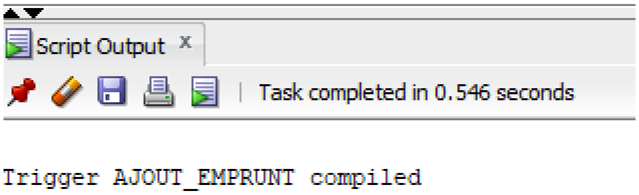


```
Table CATALOGUE created.


Table EXEMPLAIRE created.


Table ADHERENT created.


Table EMPRUNT created.
```



```
able RETARD created.
```

```
/*****ajout EMPRUNT******/

CREATE OR REPLACE TRIGGER AJOUT_EMPRUNT

BEFORE INSERT ON EMPRUNT

FOR EACH ROW

declare

n NUMBER;

m number;

p number;

begin


SELECT count(codexp) into n  from emprunt where (noAdh=:new.noAdh and dateReffective is null)  ;

select count(noAdh) into m from emprunt where :new.codexp=codexp and dateReffective is null;

select count(noAdh) into p from retard where :new.noAdh=noAdh and upper(encours) like 'YES';

if n=5 then RAISE_APPLICATION_ERROR(-20100,'insertion impossible l''adherant a deja 5 empruntS');


else if m>0 then  RAISE_APPLICATION_ERROR(-20100,'exemplaire déja emprunté pas rendu');


else if (:new.dateReffective>sysdate ) then  RAISE_APPLICATION_ERROR(-20100,'La valeur de la date de retour effective ne doit
pas être antérieure à la date système.');

else if p>0 then  RAISE_APPLICATION_ERROR(-20100,'vous avez une penalite de retard encours');

else if (TO_CHAR(SYSDATE, 'DD')=29 or TO_CHAR(SYSDATE, 'DD')=30) then

RAISE_APPLICATION_ERROR(-20100,'le jour de retour prévue doit être toujours diffèrent de 29 et de 30');

else

   INSERT INTO EMPRUNT
VALUES(:new.codexp,SYSDATE,:new.noadh,:new.daterprevue,:new.datereffective);

END IF;

END IF;

END IF;

END IF;

END IF;

END;
```

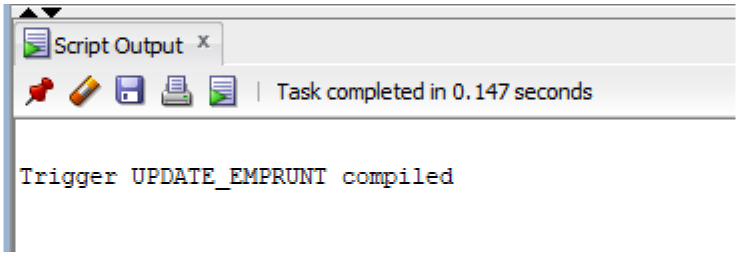


Task completed in 0.546 seconds

```
Trigger AJOUT_EMPRUNT compiled
```

```
/***********Update emprunt****************************/

create or replace TRIGGER UPDATE_EMPRUNT

BEFORE UPDATE ON EMPRUNT

FOR EACH ROW

BEGIN

IF(:NEW.datereffective>:OLD.dateRprevue )THEN

RAISE_APPLICATION_ERROR(-20104,' mise a jour refusé');
```

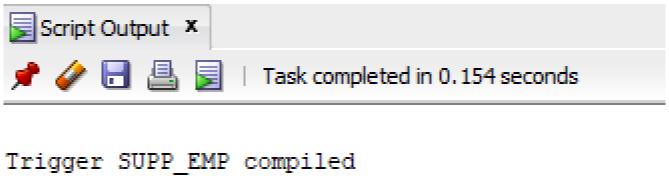
```
ELSE

IF(:NEW.codexp!= :OLD.codexp OR :NEW.dateEmp!= :OLD.dateEmp OR :NEW.noAdh!= :OLD.noAdh OR :NEW.dateRprevue!= :OLD.dateRprevue   ) THEN

RAISE_APPLICATION_ERROR(-20105,' mise a jour refusé');

ELSE UPDATE EMPRUNT set datereffective=:NEW.datereffective;


END IF;

END IF;


END;
```



Task completed in 0.147 seconds

```
Trigger UPDATE_EMPRUNT compiled
```

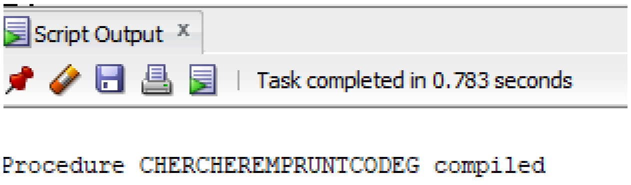
```
/********* supprimer emprint ***********/

CREATE OR REPLACE TRIGGER supp_emp BEFORE

DELETE ON EMPRUNT

FOR EACH ROW

BEGIN

      RAISE_APPLICATION_ERROR(-20200,'Suppression impossible.');

END;
```



Task completed in 0.154 seconds

```
Trigger SUPP_EMP compiled
```

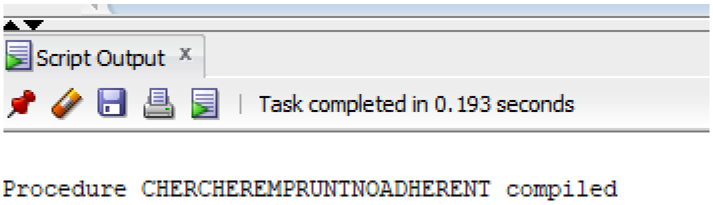
```
/************* chercher emprunt ************/

SET SERVEROUTPUT ON
CREATE OR REPLACE PROCEDURE CHERCHEREMPRUNTCODEG
( CODECATALOGUE IN NUMBER) AS

 cursor listEmprunt is
 select e.codexp, e.dateEmp,e.noAdh,e.dateRprevue,e.dateReffective from emprunt e , exemplaire ex
 where e.codexp=ex.codexp
 and ex.codeg=codecatalogue;
 vList listEmprunt%ROWTYPE;
 begin

 open listEmprunt;
 loop
 fetch listEmprunt into vList ;
 DBMS_OUTPUT.PUT_LINE('Code exemplaire :'||vList.codexp||'Date emprunt  :'||
vList.dateEmp||'Numero adherent  :'|| vList.noAdh||'Date retour prevue :'|| vList.dateRprevue||'Date
retour prevue :'|| vList.dateReffective);
 end loop;
 close listEmprunt;
END CHERCHEREMPRUNTCODEG;
```



Task completed in 0.783 seconds

```
Procedure CHERCHEREMPRUNTCODEG compiled
```

```
CREATE OR REPLACE PROCEDURE CHERCHEREMPRUNTNOADHERENT ( num IN NUMBER) AS


  cursor listEmprunt is
  select  CODEXP ,DATEEMP ,NOADH ,DATERPREVUE ,DATEREFFECTIVE  from emprunt
  where noAdh=num;


  vList listEmprunt%ROWTYPE;
  begin


  open listEmprunt;
  loop
  fetch listEmprunt into vList ;
  DBMS_OUTPUT.PUT_LINE('Code exemplaire :'||vList.codexp||'Date emprunt  :'||
vList.dateEmp||'Numero adherent  :'|| vList.noAdh||'Date retour prevue :'|| vList.dateRprevue||'Date
retour prevue :'|| vList.dateReffective);
  end loop;
  close listEmprunt;
END CHERCHEREMPRUNTNOADHERENT;
```

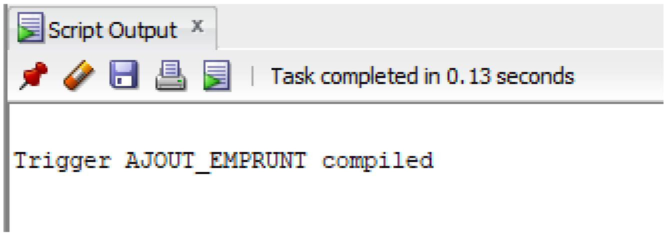


Task completed in 0.193 seconds

```
Procedure CHERCHEREMPRUNTNOADHERENT compiled
```

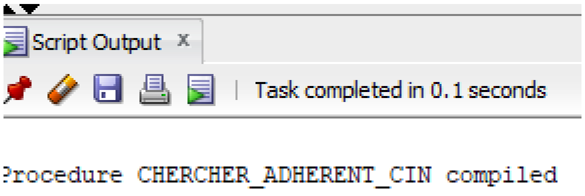
```
/************ ajout emprunt *********/
CREATE OR REPLACE TRIGGER AJOUT_EMPRUNT
BEFORE INSERT ON EMPRUNT
FOR EACH ROW
declare
```

```
n NUMBER;
m number;
p number;
begin

SELECT count(codexp) into n  from emprunt where (noAdh=:new.noAdh and dateReffective is null)  ;
select count(noAdh) into m from emprunt where :new.codexp=codexp and dateReffective is null;
select count(noAdh) into p from retard where :new.noAdh=noAdh and upper(encours) like 'YES';
if n=5 then RAISE_APPLICATION_ERROR(-20100,'insertion impossible l''adherant a deja 5 empruntS');

else if m>0 then  RAISE_APPLICATION_ERROR(-20100,'exemplaire déja emprunté pas rendu');

else if (:new.dateReffective>sysdate ) then  RAISE_APPLICATION_ERROR(-20100,'La valeur de la date de
retour effective ne doit
pas être antérieure à la date système.');

else if p>0 then  RAISE_APPLICATION_ERROR(-20100,'vous avez une penalite de retard encours');

else if (TO_CHAR(SYSDATE, 'DD')=29 or TO_CHAR(SYSDATE, 'DD')=30) then
RAISE_APPLICATION_ERROR(-20100,'le jour de retour prévue doit être toujours diffèrent de 29 et de
30');
else
   INSERT INTO EMPRUNT
VALUES(:new.codexp,SYSDATE,:new.noadh,:new.daterprevue,:new.datereffective);
END IF;
END IF;
END IF;
END IF;
END IF;
END;
```



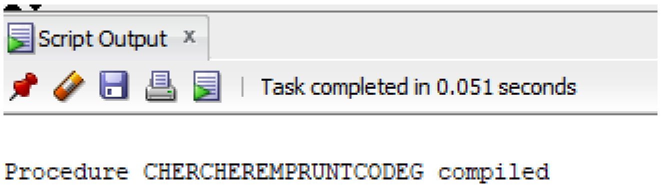
```
Trigger AJOUT_EMPRUNT compiled
```

```
/************** CHERCHER ADHRENT **********/

create or replace PROCEDURE CHERCHER_ADHERENT_CIN

( CIN IN NUMBER ) AS

BEGIN

 SELECT* from ADHERENT where CIN=ncin;

 DBMS_OUTPUT.PUT_LINE('num adherent:'||noAdh||'nom'|| nom||'prenom  :'||
prenom||'adresse:'|| adresse||'cin:'|| ncin||'telephone:'|| tel||'date:'|| dateAdh||'email:'|| email);

 EXCEPTION

WHEN NO_DATA_FOUND THEN

RAISE_APPLICATION_ERROR(-20123,'pas d''adherent avec ce numero cin');

WHEN OTHERS THEN

RAISE;

END CHERCHER_ADHERENT_CIN;
```



```
Procedure CHERCHER_ADHERENT_CIN compiled
```

```
/********** CHERCHER EMPRUNT ********/

create or replace PROCEDURE CHERCHEREMPRUNTCODEG

( CODECATALOGUE IN NUMBER) AS


  cursor listEmprunt is

  select e.codexp, e.dateEmp,e.noAdh,e.dateRprevue,e.dateReffective from emprunt e , exemplaire ex

  where e.codexp=ex.codexp

  and ex.codeg=codecatalogue;

  vList listEmprunt%ROWTYPE;

  begin


  open listEmprunt;

  loop

  fetch listEmprunt into vList ;

  DBMS_OUTPUT.PUT_LINE('Code exemplaire :'||vList.codexp||'Date emprunt  :'||
vList.dateEmp||'Numero adherent  :'|| vList.noAdh||'Date retour prevue :'|| vList.dateRprevue||'Date
retour prevue :'|| vList.dateReffective);

  end loop;

  close listEmprunt;

END CHERCHEREMPRUNTCODEG;
```

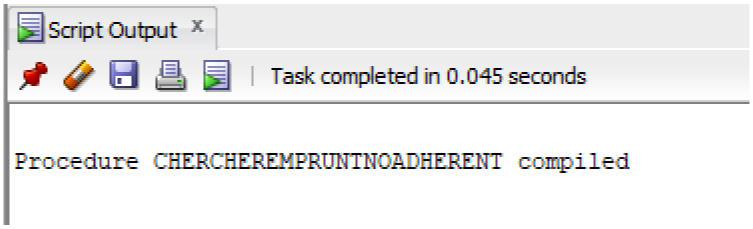


Task completed in 0.051 seconds

```
Procedure CHERCHEREMPRUNTCODEG compiled
```

```
create or replace PROCEDURE CHERCHEREMPRUNTNOADHERENT ( num IN NUMBER) AS


  cursor listEmprunt is

  select  CODEXP ,DATEEMP ,NOADH ,DATERPREVUE ,DATEREFFECTIVE  from emprunt

  where noAdh=num;
```

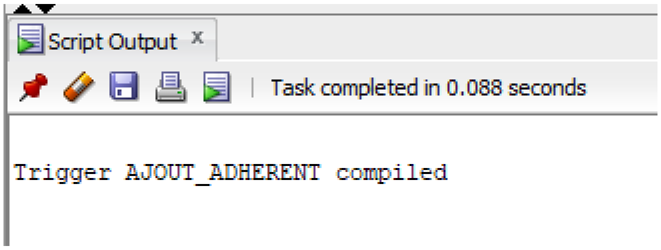
```
 vList listEmprunt%ROWTYPE;
 begin


 open listEmprunt;
 loop
 fetch listEmprunt into vList ;
 DBMS_OUTPUT.PUT_LINE('Code exemplaire :'||vList.codexp||'Date emprunt  :'||
vList.dateEmp||'Numero adherent  :'|| vList.noAdh||'Date retour prevue :'|| vList.dateRprevue||'Date
retour prevue :'|| vList.dateReffective);
 end loop;
 close listEmprunt;
END CHERCHEREMPRUNTNOADHERENT;
```



```
Procedure CHERCHEREMPRUNTNOADHERENT compiled
```

```
/********* AJOUT ADHERENT *******/
create or replace TRIGGER AJOUT_ADHERENT
BEFORE INSERT ON ADHERENT
FOR EACH ROW
DECLARE
nbr number;
BEGIN
SELECT COUNT (noAdh)into nbr FROM adherent WHERE ncin =:NEW.ncin;
if (nbr >0) then
RAISE_APPLICATION_ERROR(-20101,'il est deja adherent');
END IF ;
```

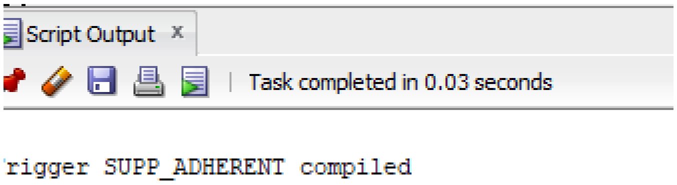
```
END;
```



Task completed in 0.088 seconds

```
Trigger AJOUT_ADHERENT compiled
```

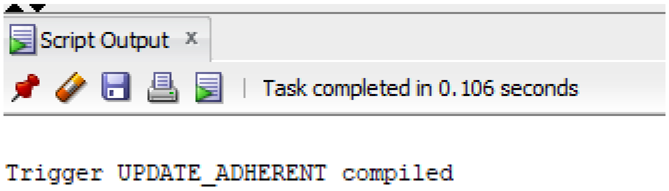
```
/********* SUPPRIMER ADHERENT *********/
create or replace TRIGGER SUPP_ADHERENT
BEFORE DELETE ON ADHERENT
FOR EACH ROW
DECLARE
nbremprunt number;
BEGIN
SELECT COUNT(Codexp) INTO nbremprunt FROM emprunt WHERE noadh =:NEW.noadh;
IF(nbremprunt >0)THEN
RAISE_APPLICATION_ERROR(-20102,'suppression impossible car l''adherent a des emprunts');
END IF ;
END;
```



Task completed in 0.03 seconds

```
rigger SUPP_ADHERENT compiled
```

```
/****** UPDATE  ADHERENT ********/
create or replace TRIGGER UPDATE_ADHERENT
BEFORE UPDATE ON ADHERENT
FOR EACH ROW
BEGIN
IF(:NEW.ADRESSE!= :OLD.ADRESSE OR :NEW.TEL!= :OLD.TEL OR :NEW.EMAIL!= :OLD.EMAIL) THEN
RAISE_APPLICATION_ERROR(-20105,'mise a jouçr refusé');
END IF;
END;
```

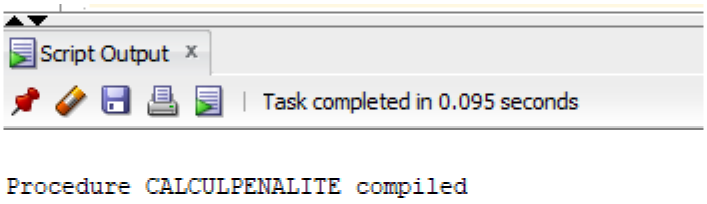


Task completed in 0.106 seconds

```
Trigger UPDATE_ADHERENT compiled
```

```
/*********** CALCUL PENALITE **********/
create or replace PROCEDURE CALCULPENALITE
(
  DPREVUE IN DATE
, DEFFECTIVE IN DATE
) AS
nbr number;
d1 DATE;
BEGIN
select r.dateemp into d1
from retard r
where r.datereffective=DEFFECTIVE ;
```

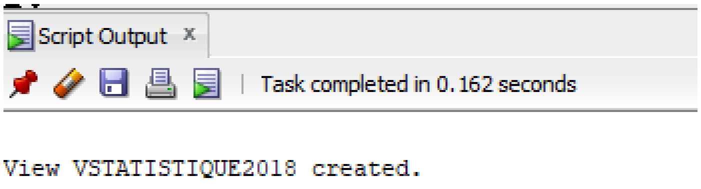
```
nbr:=to_char(DEFFECTIVE,'dd')-to_char(DPREVUE,'dd');
if(nbr>30) then
update retard set penalite=nbr where dateemp=d1;
DBMS_OUTPUT.PUT_LINE('update de penalite faite 1 !!');
else if(nbr<90 and nbr>30) then
update retard set penalite=nbr*2 where dateemp=d1;
DBMS_OUTPUT.PUT_LINE('update de penalite faite 2 !!');
else
DBMS_OUTPUT.PUT_LINE('tu dois payer ouvrage !!');
end if;
end if;
END CALCULPENALITE;
```



Task completed in 0.095 seconds

```
Procedure CALCULPENALITE compiled
```

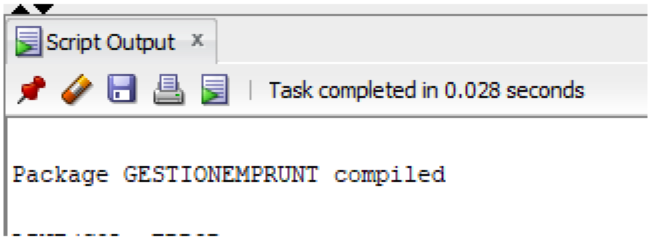
```
/*** vue **/
create or replace view VStatistique2018(codeg,titre,nbrexp,nbrexpNonDisp,nbremprunt,nbreretard) as
select c.codeg,titre,
(select count(*) from exemplaire ex where ex.codeg=c.codeg) as nbrexp,
(select count(*) from exemplaire ex where ex.codeg=c.codeg and etat='mediocre')as nbrexpNonDisp,
(select count(*) from emprunt em,exemplaire ex where ex.codeg=c.codeg and ex.codexp=em.codexp)as nbrem,
(select count(*) from retard r where r.codeg=c.codeg)as nbreretard
from catalogue c
group by(c.codeg,titre)
```



Task completed in 0.162 seconds

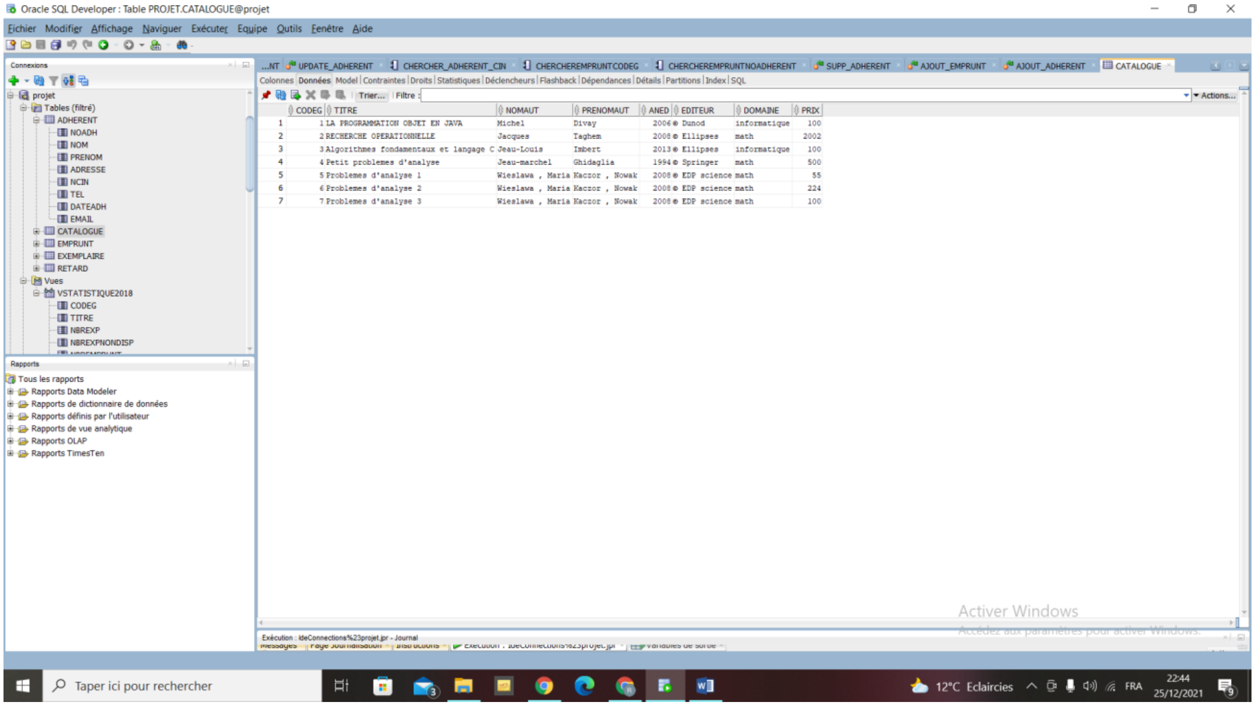
```
View VSTATISTIQUE2018 created.
```

```
create or replace PACKAGE GESTIONEMPRUNT AS
  PROCEDURE CHERCHEREMPRUNTCODEG  ( CODECATALOGUE IN NUMBER) ;
  PROCEDURE CHERCHEREMPRUNTNOADHHERENT  ( NOADHERANT NUMBER);
  PROCEDURE CHERCHER_ADHERENT_CIN  ( CIN IN NUMBER );
  PROCEDURE CALCULPENALITE ( DATEPREVUE  DATE , DATEEFFECTIVE  DATE );
  END GESTIONEMPRUNTAS ;
```



Task completed in 0.028 seconds

```
Package GESTIONEMPRUNT compiled
```



Oracle SQL Developer : Table PROJET.CATALOGUE@projet

Fichier Modifier Affichage Naviguer Exécuter Equipe Outils Fenêtre Aide
Connexions
projet
Tables (filtré)
ADHERENT
NOADH
NOM
PRENOM
ADRESSE
NCIN
TEL
DATEADH
EMAIL
CATALOGUE
EMPRUNT
EXEMPLAIRE
RETARD
Vues
VSTATISTIQUE2018
CODEG
TITRE
NBREXP
NBREXPNONDISP
Rapports
Tous les rapports
Rapports Data Modeler
Rapports de dictionnaire de données
Rapports définis par l'utilisateur
Rapports de vue analytique
Rapports OLAP
Rapports TimesTen
...NT
UPDATE_ADHERENT
CHERCHER_ADHERENT_CIN
CHERCHEREMPRUNTCODEG
CHERCHEREMPRUNTNOADHERENT
SUPP_ADHERENT
AJOUT_EMPRUNT
AJOUT_ADHERENT
CATALOGUE
Colonnes Données Model Contraintes Droits Statistiques Déclencheurs Flashback Dépendances Détails Partitions Index SQL
Trier...
Filtre :
Actions...
Activer Windows
Accédez aux paramètres pour activer Windows.
Exécution : IdeConnections%23projet.jpr - Journal
Taper ici pour rechercher
12°C Eclaircies
FRA
22:44
25/12/2021

	CODEG	TITRE	NOMAUT	PRENOMAUT	ANED	EDITEUR	DOMAINE	PRIX
1	1	LA PROGRAMMATION OBJET EN JAVA	Michel	Divay	2006	Dunod	informatique	100
2	2	RECHERCHE OPERATIONNELLE	Jacques	Taghem	2008	Ellipses	math	2002
3	3	Algorithmes fondamentaux et langage C	Jeau-Louis	Imbert	2013	Ellipses	informatique	100
4	4	Petit problemes d'analyse	Jeau-marchel	Ghidaglia	1994	Springer	math	500
5	5	Problemes d'analyse 1	Wieslawa , Maria	Kaczor , Nowak	2008	EDP science	math	55
6	6	Problemes d'analyse 2	Wieslawa , Maria	Kaczor , Nowak	2008	EDP science	math	224
7	7	Problemes d'analyse 3	Wieslawa , Maria	Kaczor , Nowak	2008	EDP science	math	100