Axel Cornelio

Dr.conlon small project  MIS 409

sl/sql project 1

**#1**

/\*

drop table league2;

create table league2 as select \* from league;

select \* from league2;

select \* from league2 where lnumber = 1;

drop table test\_update\_league2\_log;

\*/

Create table test\_update\_league2\_log

--should be apex\_public\_user

(user\_name varchar2(20),

--should give the current time

date\_time timestamp(6),

leaguename\_old varchar2(40),

leaguename\_new varchar2(40));

select \* from test\_update\_league2\_log;

desc league2;

--A trigger that is named test\_update\_league2

Create or replace trigger test\_update\_league2

After update on league2

For each row

Begin

Insert into test\_update\_league2\_log

--I want to have the new and old name of the leagues in the output

Values(USER,SYSDATE,:OLD.Leaguename,:NEW.Leaguename);

END;

select \* from league2;

--run these commands

--I am just adding league to the end of the name

update league2 set leaguename = 'National League' where lnumber = 1;

update league2 set leaguename = 'American League' where lnumber = 2;

update league2 set leaguename = 'International League' where lnumber = 3;

update league2 set leaguename = 'Mexican League' where lnumber = 4;

update league2 set leaguename = 'Italian League' where lnumber = 5;

update league2 set leaguename = 'Pacific Coast League' where lnumber = 6;

update league2 set leaguename = 'Pioneer League' where lnumber = 7;

update league2 set leaguename = 'Chinese League' where lnumber = 8;

update league2 set leaguename = 'Dominican League' where lnumber = 9;

update league2 set leaguename = 'Midwest League' where lnumber = 10;

select \* from test\_update\_league2\_log;

CREATE TABLE LEAGUE

(Leaguename varchar(25) NOT NULL,

Lnumber char(6) NOT NULL,

Yearcreated char(4) NOT NULL,

Numberofteams char(2) NOT NULL,

Country varchar(25) NOT NULL,

PRIMARY KEY(Lnumber));

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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| |  |  |  | | --- | --- | --- | | insert into league values('National ','1','1876','15','USA'); | |  | | insert into league values('American','2','1901','15','USA'); | |  | | insert into league values('International','3','1884','20','USA'); | |  | | insert into league values('Mexican ','4','1925','18','Mexico'); | |  | | insert into league values('Italian','5','1948','6','Italy'); |  |  | | insert into league values('Pacific Coast','6','1903','10','USA'); | |  | | insert into league values('Pioneer','7','1939','10','USA'); |  |  | | insert into league values('Chinese','8','1989','6','Taiwan'); | |  | | insert into league values('Dominican','9','1955','6','Domican Republic'); | | | | insert into league values('Midwest','10','1947','12','USA'); | |  | |  |

Commit;

Table

Description automatically generated

**#2**

/\*

drop table locations2;

create table locations2 as select \* from league\_locations;

select \* from locations2;

select \* from locations2 where lnumber = 1;

drop table test\_update\_locations2\_log;

\*/

Create table test\_update\_locations2\_log

(user\_name varchar2(20),

date\_time timestamp(6),

Location\_old varchar2(40),

Location\_new varchar2(40));

select \* from test\_update\_locations2\_log;

desc locations2;

Create or replace trigger test\_update\_locations2

After update on locations2

for each row

begin

insert into test\_update\_locations2\_log

values(USER,SYSDATE,:OLD.LLocation,:NEW.LLOCATION);

END;

select \* from locations2;

--run these commands

update locations2 set llocation = 'Atlanta GA' where lnumber = 1;

update locations2 set llocation = 'Queens NY' where lnumber = 2;

update locations2 set llocation = 'Philidelphia PA' where lnumber = 3;

update locations2 set llocation = 'Miami FL' where lnumber = 4;

update locations2 set llocation = 'District of Columbia DC' where lnumber = 5;

update locations2 set llocation = 'St. Louis MO' where lnumber = 6;

update locations2 set llocation = 'Milwaukee WI' where lnumber = 7;

update locations2 set llocation = 'Chicago IL' where lnumber = 8;

update locations2 set llocation = 'Cincinnatti OH' where lnumber = 9;

update locations2 set llocation = 'Pittsburgh PA' where lnumber = 10;

update locations2 set llocation = 'Los Angeles CA' where lnumber = 11;

update locations2 set llocation = 'San Diego CA' where lnumber = 12;

update locations2 set llocation = 'San Francisco CA' where lnumber = 13;

update locations2 set llocation = 'Phoenix AZ' where lnumber = 14;

update locations2 set llocation = 'Denver CO' where lnumber = 15;

update locations2 set llocation = 'Bronx NY' where lnumber = 16;

update locations2 set llocation = 'Toronto Canada' where lnumber = 17;

update locations2 set llocation = 'Tampa Bay FL' where lnumber = 18;

update locations2 set llocation = 'Baltimore MD' where lnumber = 19;

update locations2 set llocation = 'Boston MA' where lnumber = 20;

update locations2 set llocation = 'Cleveland OH' where lnumber = 21;

update locations2 set llocation = 'Seattle WA' where lnumber = 22;

update locations2 set llocation = 'Los Angeles CA' where lnumber = 23;

update locations2 set llocation = 'Arlington TX' where lnumber = 24;

update locations2 set llocation = 'Oakland CA' where lnumber = 25;

update locations2 set llocation = 'Chicago IL' where lnumber = 26;

update locations2 set llocation = 'Minneapolis MN' where lnumber = 27;

update locations2 set llocation = 'Detroit MI' where lnumber = 28;

update locations2 set llocation = 'Kansas City KS' where lnumber = 29;

update locations2 set llocation = 'Houston TX' where lnumber = 30;

select \* from test\_update\_locations2\_log;

CREATE TABLE League\_Locations

(Lnumber char(6) NOT NULL,

Llocation char(35) NOT NULL,

Timezone char(5) NOT NULL,

Stadiumname varchar(40) NOT NULL,

Division varchar(50) NOT NULL,

PRIMARY KEY(Lnumber,Llocation));

FOREIGN KEY(Lnumber) references league(Lnumber);

|  |  |
| --- | --- |
|  |  |
| insert into league\_locations values('1','Atlanta','EST','Truist Park','National League East'); | | |  |  |
| insert into league\_locations values('2','Queens','EST','Citi Field','National League East'); | | |  |  |
| insert into league\_locations values('3','Philidelphia','EST','Citizens Bank Park','National League East'); | | | |  |
| insert into league\_locations values('4','Miami','EST','Marlins Park','National League East'); | | |  |  |
| insert into league\_locations values('5','Washington DC','EST','Nationals Park','National League East'); | | | |  |
| insert into league\_locations values('6','St. Louis','CST','Busch Stadium','National League Central'); | | | |  |
| insert into league\_locations values('7','Milwaukee','CST','Miller Park','National League Central'); | | | |  |
| insert into league\_locations values('8','Chicago','CST','Wrigley Field','National League Central'); | | | |  |
| insert into league\_locations values('9','Cincinnatti','EST','Great American Ball Park','National League Central'); | | | | |
| insert into league\_locations values('10','Pittsburgh','EST','PNC Park','National League Central'); | | | |  |
| insert into league\_locations values('11','Los Angeles','PST','Dodger Stadium','National League West'); | | | |  |
| insert into league\_locations values('12','San Diego','PST','Petco Park','National League West'); | | |  |  |
| insert into league\_locations values('13','San Francisco','PST','Oracle Park','National League West'); | | | |  |
| insert into league\_locations values('14','Phoenix','PST','Chase Field','National League West'); | | |  |  |
| insert into league\_locations values('15','Denver','MST','Coors Field','National League West'); | | |  |  |
| insert into league\_locations values('16','Bronx','EST','Yankee Stadium','American League East'); | | | |  |
| insert into league\_locations values('17','Toronto','EST','Rogers Centre','American League East'); | | | |  |
| insert into league\_locations values('18','Tampa Bay','EST','Tropicana Field','American League East'); | | | |  |
| insert into league\_locations values('19','Baltimore','EST','Oriole Park at Camden Yards','American League East'); | | | | |
| insert into league\_locations values('20','Boston','EST','Fenway Park','American League East'); | | |  |  |
| insert into league\_locations values('21','Cleveland','EST','Progressive Field','American League Central'); | | | |  |
| insert into league\_locations values('22','Seattle','PST','T-mobile Park','American League West'); | | |  |  |
| insert into league\_locations values('23','Los Angeles','PST','Angel Stadium','American League West'); | | | |  |
| insert into league\_locations values('24','Arlington','CST','Globe Life Field','American League West'); | | | |  |
| insert into league\_locations values('25','Oakland','PST','Ringcentral Coliseum','American League West'); | | | |  |
| insert into league\_locations values('26','Chicago','CST','Guranteed Rate Field','American League Central'); | | | | |
| insert into league\_locations values('27','Minneapolis','CST','Target Field','American League Central'); | | | |  |
| insert into league\_locations values('28','Detroit','EST','Comerica Field','American League Central'); | | | |  |
| insert into league\_locations values('29','Kansas City','CST','Kauffman Stadium','American League Central'); | | | | |
| insert into league\_locations values('30','Houston','CST','Minute Maid Park','American League West');  Commit; | | | |  |

Table

Description automatically generated

**#3**

/\*

drop table manager2;

create table manager2 as select \* from manager;

select \* from manager2;

select \* from manager2 where superplayerid = 1;

drop table test\_update\_manager2\_log;

\*/

create table test\_update\_manager2\_log

(

user\_name varchar2(20),

date\_time timestamp(6),

lname\_old varchar2(25),

lname\_new varchar2(25)

);

select \* from test\_update\_manager2\_log;

desc manager2;

CREATE OR REPLACE TRIGGER test\_update\_manager2

AFTER UPDATE ON manager2

FOR EACH ROW

BEGIN

insert into test\_update\_manager2\_log

VALUES(USER,SYSDATE,:OLD.LNAME,:NEW.LNAME);

END;

select \* from manager2;

---Run these commands

update manager2 set lname = 'C.' where superplayerid = 1;

update manager2 set lname = 'R.' where superplayerid = 2;

update manager2 set lname = 'S.' where superplayerid = 3;

update manager2 set lname = 'C.' where superplayerid = 4;

update manager2 set lname = 'B.' where superplayerid = 5;

update manager2 set lname = 'B.' where superplayerid = 6;

update manager2 set lname = 'S.' where superplayerid = 7;

update manager2 set lname = 'N.' where superplayerid = 8;

update manager2 set lname = 'B.' where superplayerid = 9;

update manager2 set lname = 'S.' where superplayerid = 10;

select \* from test\_update\_manager2\_log;

CREATE TABLE manager

(superplayerid char(6) NOT NULL,

Fname varchar(25) NOT NULL,

Lname varchar(25) NOT NULL,

Lno char(5) NOT NULL,

Salary decimal NOT NULL,

PRIMARY KEY(superplayerid));

FOREIGN KEY(superplayerid) references player(superplayerid);

FOREIGN KEY(Lno) references league\_locations(Lnumber);

FOREIGN KEY(Lno) references league(Lnumber);

insert into manager values('1','Alex','Cora','20','800000');

insert into manager values('2','Dave ','Roberts','11','650000');

insert into manager values('3','John','Schneider','17','77900');

insert into manager values('4','Craig','Counsell','7','1500000');

insert into manager values('5','Dusty','Baker','30','1200000');

insert into manager values('6','Bud','Black','15','1500000');

insert into manager values('7','Brian','Snitker','1','800000');

insert into manager values('8','Phil','Nevin','23','1150000');

insert into manager values('9','Aaron','Boone','16','1150000');

insert into manager values('10','Buck','Showalter','2','4000000');

Commit;

Table

Description automatically generated

#4

/\*

drop table pets2;

create table pets2 as select \* from pets;

select \* from pets2;

select \* from pets2 where petid = 89;

drop table test\_update\_pets2\_log;

\*/

CREATE table test\_update\_pets2\_log

(

--user\_name should be named apex\_public\_user for me using livesql

user\_name varchar2(20),

--should display the current time when it is run

date\_time timestamp(6),

Pethome\_old varchar2(20),

Pethome\_new varchar2(20)

);

select \* from test\_update\_pets2\_log;

desc pets2;

create or replace trigger test\_update\_pets2

after update on pets2

for each row

begin

insert into test\_update\_pets2\_log

values(USER,SYSDATE,:OLD.pethome,:NEW.pethome);

END;

select \* from pets2;

---run these commands

--in this update i am changing

--the current pethome to only the

--state name.

update pets2 set pethome = 'California' where petid = 89;

update pets2 set pethome = 'California' where petid = 90;

update pets2 set pethome = 'NYC' where petid = 99;

update pets2 set pethome = 'California' where petid = 85;

update pets2 set pethome = 'California' where petid = 87;

update pets2 set pethome = 'California' where petid = 92;

--should display user\_name date\_date pethome\_old and pethome\_new in the output and in that order.

select \* from test\_update\_pets2\_log;

Create Table pets

(petid char(10) NOT NULL,

Petname varchar(25) NOT NULL,

PetType varchar(50) NOT NULL,

PetHome varchar(50) NOT NULL,

Sex varchar(10) NOT NULL,

PRIMARY KEY(petid, Petname));

FOREIGN KEY(petid) references player (playerid);

insert into pets values('89','Lucky','Shepherd mix','Linden,CA','male');

insert into pets values('90','Nala','tabby cat','Los Angeles,CA','female');

insert into pets values('99','Bo','american terrier','new york city','male');

insert into pets values('99','Rafi','french bulldog','new york city','male');

insert into pets values('99','Rocco','GSP mix','new york city','male');

insert into pets values('99','Zou','boxer','new york city','female');

insert into pets values('85','Juno','Alaskan Huskey','Los Angeles,CA','male');

insert into pets values('85','Josie','Alaskan Huskey','Los Angeles,CA','female');

insert into pets values('87','Leo','chihuahua','Los Angeles,CA','male');

insert into pets values('92','Mo','white havanese','Lake Forest,CA','male');

Commit;

Table

Description automatically generated

#5

Declare

--Exception that occurs when someone puts in a superplayerid that isn't good

ex\_superplayerid\_fk EXCEPTION;

PRAGMA EXCEPTION\_INIT(ex\_superplayerid\_fk, -00001);

--Exception that occurs when someone puts something like letters into salary.

ex\_salary\_fk EXCEPTION;

PRAGMA EXCEPTION\_INIT(ex\_salary\_fk, -01722);

--Exception that occurs when you use a larger lno that is longer than 5

ex\_lno\_fk EXCEPTION;

PRAGMA EXCEPTION\_INIT(ex\_lno\_fk, -12899);

CURSOR cur\_manager IS

SELECT superplayerid,fname,lname,lno,salary

FROM manager,league

WHERE lno = lnumber;

TYPE type\_manager IS RECORD (

ID manager.superplayerid%TYPE,

FirstName manager.fname%TYPE,

LastName manager.lname%TYPE,

ManagerSalary manager.salary%TYPE,

Lnumber manager.lno%TYPE);

rec\_manager type\_manager;

BEGIN

--trying to insert a superplayerid that is already being used so it should send the error message

insert into manager values ('1','John','Boberts','55','100000');

--trying to insert letters into salary should return an error message

insert into manager values('18','John','Boberts','55','hey');

--trying to insert a large lno should return an error message

insert into manager values('128','John','Boberts','1000000','1000000');

DBMS\_OUTPUT.PUT\_LINE (' ');

DBMS\_OUTPUT.PUT\_LINE (' LNO Salary ');

DBMS\_OUTPUT.PUT\_LINE (' ');

OPEN cur\_manager;

LOOP

FETCH cur\_manager INTO rec\_manager;

EXIT WHEN cur\_manager%NOTFOUND;

DBMS\_OUTPUT.PUT\_LINE(' ' || rpad(trim(rec\_manager.FirstName),10) || ' ' || rpad(trim(rec\_manager.LastName),10) ||' '|| rpad(trim(rec\_manager.ID),15)|| to\_char(rec\_manager.ManagerSalary, '$999,999.99') || ' ' || to\_char(rec\_manager.Lnumber));

END loop;

EXCEPTION

WHEN ex\_superplayerid\_fk THEN

--You should see this error message when using a bad superplayerid

DBMS\_OUTPUT.PUT\_LINE('You are using a superplayerid that is already being used. Please use check this.');

WHEN ex\_salary\_fk THEN

--You should see this error message when using something other than numbers into salary

DBMS\_OUTPUT.PUT\_LINE('You are using invalid characters. You are trying to insert something other than numbers under salary. Please use check this.');

WHEN ex\_lno\_fk THEN

--You should see this error message when using a large lno

DBMS\_OUTPUT.PUT\_LINE('Your lno is too large. Try and use a smaller lno for this to stop.');

End;

CREATE TABLE manager

(superplayerid char(6) NOT NULL,

Fname varchar(25) NOT NULL,

Lname varchar(25) NOT NULL,

Lno char(5) NOT NULL,

Salary decimal NOT NULL,

PRIMARY KEY(superplayerid));

FOREIGN KEY(superplayerid) references player(superplayerid);

FOREIGN KEY(Lno) references league\_locations(Lnumber);

FOREIGN KEY(Lno) references league(Lnumber);

insert into manager values('1','Alex','Cora','20','800000');

insert into manager values('2','Dave ','Roberts','11','650000');

insert into manager values('3','John','Schneider','17','77900');

insert into manager values('4','Craig','Counsell','7','1500000');

insert into manager values('5','Dusty','Baker','30','1200000');

insert into manager values('6','Bud','Black','15','1500000');

insert into manager values('7','Brian','Snitker','1','800000');

insert into manager values('8','Phil','Nevin','23','1150000');

insert into manager values('9','Aaron','Boone','16','1150000');

insert into manager values('10','Buck','Showalter','2','4000000');

Commit;

**#6**

DECLARE  
  
--This is a procedure so that you can add new leagues into the table  
 CREATE OR REPLACE PROCEDURE Insert\_New\_League\_location  
  
--This is using a new field name instead of the old ones for the program.  
  (p\_leaguenum IN league\_locations.lnumber%TYPE,  
  
   p\_location IN league\_locations.llocation%TYPE,  
  
   p\_timezone IN league\_locations.timezone%TYPE,  
  
   p\_stadium IN league\_locations.stadiumname%TYPE,  
     
   p\_division IN league\_locations.division)  
  
  IS  
  
     BEGIN  insert into league\_locations values (p\_leaguenum, p\_location, p\_timezone, p\_stadium, p\_division);  
  
                  Commit;  
  
--In this code, it is trying to get information from places that are from the EST timezone.  
--Everything else I wanted to keep the same.  
LeagueNumber       league\_locations.lnumber%type;  
  
Location       league\_locations.llocation%type;  
  
--this is where you are saying that you want the timezone where it is equal to EST  
TimeZone        league\_locations.timezone%type := 'EST';  
  
Stadium         league\_locations.stadiumname%type;  
  
Division        league\_locations.division%type;  
  
BEGIN  
  
--Using the new procedure from above, you can add a new field into the league locations table  
INSERT New\_league\_location('31','Oxford', 'CST', 'Ole Miss Stadium', 'American League Central');  
  
--Same thing from above  
INSERT New\_league\_location('32', 'Southaven', 'CST', 'Landers Field', 'National League Central');  
  
--Also the same, just wanted to add a couple of new fields into the table  
INSERT New\_league\_location('33','Nashville','CST', 'Nashville Stadium', 'National League Central');  
  
--this should delete the field where lnumber is equal to 31 from the table  
Delete from league\_locations where lnumber = 31;  
  
--this should delete the field where lnumber is equal to 32 from the table  
Delete from league\_locations where lnumber = 32;  
  
--this should delete the field where lnumber is equal to 33 from the table  
Delete from league\_locations where lnumber = 33;  
  
--You have to be specific here because both league and league\_locations  
--have lnumber.  
SELECT league\_locations.lnumber, llocation, timezone, stadiumname, division  
  
INTO LeagueNumber, Location, TimeZone, Stadium, Division  
  
FROM league\_locations, league  
  
WHERE league\_locations.lnumber = league.lnumber;  
  
--This should print out the five fields from the league\_locations table.  
  
DBMS\_OUTPUT.PUT\_LINE(LeagueNumber|| ' ' || Location|| ' ' ||Timezone|| ' '||Stadium|| ' '||Division);  
  
END;

CREATE TABLE LEAGUE

(Leaguename varchar(25) NOT NULL,

 Lnumber char(6) NOT NULL,

Yearcreated char(4) NOT NULL,

Numberofteams char(2) NOT NULL,

Country varchar(25) NOT NULL,

PRIMARY KEY(Lnumber));

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| |  |  |  | | --- | --- | --- | | insert into league values('National ','1','1876','15','USA'); | |  | | insert into league values('American','2','1901','15','USA'); | |  | | insert into league values('International','3','1884','20','USA'); | |  | | insert into league values('Mexican ','4','1925','18','Mexico'); | |  | | insert into league values('Italian','5','1948','6','Italy'); |  |  | | insert into league values('Pacific Coast','6','1903','10','USA'); | |  | | insert into league values('Pioneer','7','1939','10','USA'); |  |  | | insert into league values('Chinese','8','1989','6','Taiwan'); | |  | | insert into league values('Dominican','9','1955','6','Domican Republic'); | | | | insert into league values('Midwest','10','1947','12','USA'); | |  | |  |

Commit;

 CREATE TABLE League\_Locations

(Lnumber char(6) NOT NULL,

Llocation char(35) NOT NULL,

Timezone char(5) NOT NULL,

Stadiumname varchar(40) NOT NULL,

Division varchar(50) NOT NULL,

PRIMARY KEY(Lnumber,Llocation));

FOREIGN KEY(Lnumber) references league(Lnumber);

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  |  |  | | |
| insert into league\_locations values('1','Atlanta','EST','Truist Park','National League East'); | | |  |  |
| insert into league\_locations values('2','Queens','EST','Citi Field','National League East'); | | |  |  |
| insert into league\_locations values('3','Philidelphia','EST','Citizens Bank Park','National League East'); | | | |  |
| insert into league\_locations values('4','Miami','EST','Marlins Park','National League East'); | | |  |  |
| insert into league\_locations values('5','Washington DC','EST','Nationals Park','National League East'); | | | |  |
| insert into league\_locations values('6','St. Louis','CST','Busch Stadium','National League Central'); | | | |  |
| insert into league\_locations values('7','Milwaukee','CST','Miller Park','National League Central'); | | | |  |
| insert into league\_locations values('8','Chicago','CST','Wrigley Field','National League Central'); | | | |  |
| insert into league\_locations values('9','Cincinnatti','EST','Great American Ball Park','National League Central'); | | | | |
| insert into league\_locations values('10','Pittsburgh','EST','PNC Park','National League Central'); | | | |  |
| insert into league\_locations values('11','Los Angeles','PST','Dodger Stadium','National League West'); | | | |  |
| insert into league\_locations values('12','San Diego','PST','Petco Park','National League West'); | | |  |  |
| insert into league\_locations values('13','San Francisco','PST','Oracle Park','National League West'); | | | |  |
| insert into league\_locations values('14','Phoenix','PST','Chase Field','National League West'); | | |  |  |
| insert into league\_locations values('15','Denver','MST','Coors Field','National League West'); | | |  |  |
| insert into league\_locations values('16','Bronx','EST','Yankee Stadium','American League East'); | | | |  |
| insert into league\_locations values('17','Toronto','EST','Rogers Centre','American League East'); | | | |  |
| insert into league\_locations values('18','Tampa Bay','EST','Tropicana Field','American League East'); | | | |  |
| insert into league\_locations values('19','Baltimore','EST','Oriole Park at Camden Yards','American League East'); | | | | |
| insert into league\_locations values('20','Boston','EST','Fenway Park','American League East'); | | |  |  |
| insert into league\_locations values('21','Cleveland','EST','Progressive Field','American League Central'); | | | |  |
| insert into league\_locations values('22','Seattle','PST','T-mobile Park','American League West'); | | |  |  |
| insert into league\_locations values('23','Los Angeles','PST','Angel Stadium','American League West'); | | | |  |
| insert into league\_locations values('24','Arlington','CST','Globe Life Field','American League West'); | | | |  |
| insert into league\_locations values('25','Oakland','PST','Ringcentral Coliseum','American League West'); | | | |  |
| insert into league\_locations values('26','Chicago','CST','Guranteed Rate Field','American League Central'); | | | | |
| insert into league\_locations values('27','Minneapolis','CST','Target Field','American League Central'); | | | |  |
| insert into league\_locations values('28','Detroit','EST','Comerica Field','American League Central'); | | | |  |
| insert into league\_locations values('29','Kansas City','CST','Kauffman Stadium','American League Central'); | | | | |
| insert into league\_locations values('30','Houston','CST','Minute Maid Park','American League West');  Commit; | | | |  |

**#7**

/\* How to drop a function:  
  
drop function find\_first\_name;  
  
 select \* from manager;  
  
\*/  
  
-----------------------  
  
 ---- Run this part first  
  
   
  
Create or replace function find\_first\_name (p\_lno manager.lno%type)  
  
Return manager.fname%type  
  
   
  
Is  
  
            Ret\_fname  manager.fname%type;  
  
Begin  
  
if p\_lno = 20 then Ret\_fname := 'Alex';  
  
elsif p\_lno = 11 then Ret\_fname := 'Dave';  
  
elsif p\_lno = 17 then Ret\_fname := 'John';  
  
elsif p\_lno = 7 then Ret\_fname := 'Craig';  
  
elsif p\_lno = 30 then Ret\_fname := 'Dusty';  
  
elsif p\_lno = 15 then Ret\_fname := 'Bud';  
  
elsif p\_lno = 1 then Ret\_fname := 'Brian';  
  
elsif p\_lno = 23 then Ret\_fname := 'Phil';  
  
elsif p\_lno = 16 then Ret\_fname := 'Aaron';  
  
elsif p\_lno = 2 then Ret\_fname := 'Showwalter';  
end if;  
end;  
  
--- Run this part after function (above) is compiled  
  
  
  
Declare  
  
    m\_lno  manager.lno%type := '20';  
  
    managername manager.fname%type;  
  
   
  
begin  
  
managername := find\_first\_name(m\_lno);    
  
   DBMS\_OUTPUT.PUT\_LINE('Manager lno '|| m\_lno ||  ' -- First name is  ' || managername);  
  
   end;  
  
---input 20 output:  
  
--Manager lno 20 -- First name is Alex

table that was used:

CREATE TABLE manager

(superplayerid char(6) NOT NULL,

Fname varchar(25) NOT NULL,

Lname varchar(25) NOT NULL,

Lno char(5) NOT NULL,

Salary decimal NOT NULL,

PRIMARY KEY(superplayerid));

FOREIGN KEY(superplayerid) references player(superplayerid);

FOREIGN KEY(Lno) references league\_locations(Lnumber);

FOREIGN KEY(Lno) references league(Lnumber);

insert into manager values('1','Alex','Cora','20','800000');

insert into manager values('2','Dave ','Roberts','11','650000');

insert into manager values('3','John','Schneider','17','77900');

insert into manager values('4','Craig','Counsell','7','1500000');

insert into manager values('5','Dusty','Baker','30','1200000');

insert into manager values('6','Bud','Black','15','1500000');

insert into manager values('7','Brian','Snitker','1','800000');

insert into manager values('8','Phil','Nevin','23','1150000');

insert into manager values('9','Aaron','Boone','16','1150000');

insert into manager values('10','Buck','Showalter','2','4000000');

Commit;

**#8**

/\*  
drop function find\_league\_name;  
\*/  
  
---Run this part first  
  
Create or replace function find\_league\_name(p\_lnumber league.lnumber%type)  
     
return league.leaguename%type  
  
    IS  
Return\_League league.leaguename%type;  
  
Begin  
     
If p\_lnumber = 1 then Return\_League := 'National League';  
  
elsif p\_lnumber = 2 then Return\_league := 'American League';  
  
elsif p\_lnumber = 3 then Return\_league := 'International League';  
  
elsif p\_lnumber = 4 then Return\_league := 'Mexican League';  
  
elsif p\_lnumber = 5 then Return\_league := 'Italian League';  
  
elsif p\_lnumber = 6 then Return\_league := 'Pacific Coast League';  
  
elsif p\_lnumber = 7 then Return\_league := 'Pioneer League';  
  
elsif p\_lnumber = 8 then Return\_league := 'Chinese League';  
  
elsif p\_lnumber = 9 then Return\_league := 'Dominican League';  
  
elsif p\_lnumber = 10 then Return\_league := 'Midwest League';  
  
    Else Return\_league := 'N/A';  
  
End if;  
  
Return Return\_league;  
  
End;  
  
--Run this part after function above is complied  
  
Declare  
     
--League\_lnumber league.lnumber%type := '1';  
     
--League\_lnumber league.lnumber%type := '2';  
     
--League\_lnumber league.lnumber%type := '3';  
     
League\_lnumber league.lnumber%type := '4';  
  
--League\_lnumber league.lnumber%type := '5';  
  
--League\_lnumber league.lnumber%type := '6';  
  
--League\_lnumber league.lnumber%type := '7';  
  
--League\_lnumber league.lnumber%type := '8';  
  
--League\_lnumber league.lnumber%type := '9';  
  
--League\_lnumber league.lnumber%type := '10';  
  
League\_name league.leaguename%type;  
  
begin  
     
League\_name := find\_league\_name(league\_lnumber);  
  
DBMS\_OUTPUT.PUT\_LINE('League '||League\_lnumber|| '--League name is '||League\_name);  
  
end;  
  
--select \* from league;

CREATE TABLE LEAGUE

(Leaguename varchar(25) NOT NULL,

 Lnumber char(6) NOT NULL,

Yearcreated char(4) NOT NULL,

Numberofteams char(2) NOT NULL,

Country varchar(25) NOT NULL,

PRIMARY KEY(Lnumber));

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| |  |  |  | | --- | --- | --- | | insert into league values('National ','1','1876','15','USA'); | |  | | insert into league values('American','2','1901','15','USA'); | |  | | insert into league values('International','3','1884','20','USA'); | |  | | insert into league values('Mexican ','4','1925','18','Mexico'); | |  | | insert into league values('Italian','5','1948','6','Italy'); |  |  | | insert into league values('Pacific Coast','6','1903','10','USA'); | |  | | insert into league values('Pioneer','7','1939','10','USA'); |  |  | | insert into league values('Chinese','8','1989','6','Taiwan'); | |  | | insert into league values('Dominican','9','1955','6','Domican Republic'); | | | | insert into league values('Midwest','10','1947','12','USA'); | |  | |  |

Commit;

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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| **#9**  /\*  select \* from league;  \*/    DECLARE        my\_firstname VARCHAR2(20);                   my\_lastname VARCHAR2(20);                   my\_school          VARCHAR2(20);    ex\_country\_fk EXCEPTION;    PRAGMA EXCEPTION\_INIT(ex\_country\_fk, -00001);    ex\_numberofteams\_fk EXCEPTION;    PRAGMA EXCEPTION\_INIT(ex\_numberofteams\_fk,-12899);    ex\_school\_fk EXCEPTION;    PRAGMA EXCEPTION\_INIT(ex\_school\_fk,-06502);    BEGIN        my\_firstname := 'Axel';                   my\_lastname := 'Cornelio';                   my\_school := 'Ole Miss';                   DBMS\_OUTPUT.PUT\_LINE(my\_firstname);                   DBMS\_OUTPUT.PUT\_LINE(my\_lastname);                   DBMS\_OUTPUT.PUT\_LINE(my\_school);                   DBMS\_OUTPUT.PUT\_LINE('My name is '||my\_firstname || ' '|| my\_lastname|| ' '|| ' and I study at '||my\_school);    --this should give an error  --insert into league values ('2','11','2000','2','usa');    --this shouldn't work since you put a number  --in the country field so it should make an error.  --insert into league values ('2','11','2000','abc','2');      EXCEPTION        --This should appear when you put something into the country field      --like numbers and you should see this error.    When ex\_country\_fk THEN    DBMS\_OUTPUT.PUT\_LINE('Make sure to put valid characters for the country field. You can not put numbers!');    --This should appear when you put an invalid character in the numberofteams field  --that should not be there so you should see this.                   When ex\_numberofteams\_fk THEN                   DBMS\_OUTPUT.PUT\_LINE('You are having issues with the numberofteams field. Please fix it.');    --This should appear when you put something into the my\_school  --that shouldn't be there.                   When ex\_school\_fk THEN            DBMS\_OUTPUT.PUT\_LINE('You are having issues with the my\_school field.');  END;  CREATE TABLE LEAGUE  (Leaguename varchar(25) NOT NULL,   Lnumber char(6) NOT NULL,  Yearcreated char(4) NOT NULL,  Numberofteams char(2) NOT NULL,  Country varchar(25) NOT NULL,  PRIMARY KEY(Lnumber));   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | |  |  |  | | --- | --- | --- | | insert into league values('National ','1','1876','15','USA'); | |  | | insert into league values('American','2','1901','15','USA'); | |  | | insert into league values('International','3','1884','20','USA'); | |  | | insert into league values('Mexican ','4','1925','18','Mexico'); | |  | | insert into league values('Italian','5','1948','6','Italy'); |  |  | | insert into league values('Pacific Coast','6','1903','10','USA'); | |  | | insert into league values('Pioneer','7','1939','10','USA'); |  |  | | insert into league values('Chinese','8','1989','6','Taiwan'); | |  | | insert into league values('Dominican','9','1955','6','Domican Republic'); | | | | insert into league values('Midwest','10','1947','12','USA'); | |  | |  |   Commit;  **#10**  /\*  select \* from owners;  \*/    DECLARE        --Creating new names for the old name values in the      --owners field.      ID owners.ownerid%type;                   Owner owners.ownername%type;                   OperatingName owners.operatingentitiesname%type;                   Year owners.yearowned%type;                   Cost owners.costofteam%type;    --Its an exception that should appear when  --you put an invalid character like numbers into the  --ownername field.  ex\_ownername\_fk EXCEPTION;    PRAGMA EXCEPTION\_INIT (ex\_ownername\_fk,-00001);    --This is an exception that should appear when  --you put into the fields that are too large for it.  ex\_toolarge\_fk EXCEPTION;    PRAGMA EXCEPTION\_INIT(ex\_toolarge\_fk,-12899);    BEGIN        --Selecting the old name fields from owners      SELECT ownerid,ownername,operatingentitiesname,yearowned,costofteam        --placing them into the new name fields      INTO ID, Owner,OperatingName,Year,Cost        from owners        --I just want the one that has yearowned equal to 2020      --since there is only one that exists in this database.      where yearowned = '2020';    --the following outputs should appear if everything works out correctly.                 DBMS\_OUTPUT.PUT\_LINE('Steve Cohen owns the New York Mets');                   DBMS\_OUTPUT.PUT\_LINE('He bought it in 2020!');      --insert into owners values('18','123','test','2000','1.2 million');    --insert into owners values('error 1023202 ','phil','test','2000','1.2 million');    EXCEPTION    When ex\_ownername\_fk THEN    DBMS\_OUTPUT.PUT\_LINE('You tried putting numbers into the ownername field.');    DBMS\_OUTPUT.PUT\_LINE('Please fix this to not get this error.');    When ex\_toolarge\_fk THEN        DBMS\_OUTPUT.PUT\_LINE('You tried to put a value that is too large for that field');                   DBMS\_OUTPUT.PUT\_LINE('Please fix this to not get this error');    END;  CREATE Table owners  (ownerid char(10) NOT NULL,  OwnerName varchar(50) NOT NULL,  Operatingentitiesname varchar(50) NOT NULL,  Yearowned char(5) NOT NULL,  Costofteam varchar(25) NOT NULL,  PRIMARY KEY(ownerid));  FOREIGN KEY(ownerid) references league\_locations (Lnumber);    insert into owners values('1','Liberty Media','Atlanta National League Baseball Club Inc','2007','1270 million');  insert into owners values('2','Steven Cohen','none','2020','2.4 billion');  insert into owners values('3','Dave Montgomery','The Phillies','1981','30 million');  insert into owners values('4','Bruce Sherman','none','2017','1.2 billion');  insert into owners values('5','Mark Lerner','Washington Nationals Baseball Club LLC','2018','450 million');  insert into owners values('6','William DeWitt, Jr','St Louis National Baseball Club Inc','1995','150 million');  insert into owners values('7','Mark Attanasio','Milwaukee Brewers Baseball Club','2005','223 million');  insert into owners values('8','Tom Ricketts','Chicago National League Ball Club Inc','2009','845 million');  insert into owners values('9','Robert Castellini','Cincinnati Reds LLC','2005','270 million');  insert into owners values('10','Robert Nutting','Pittsburgh Associates LP','1996','92 million');  insert into owners values('11','Mark Walter','Guggenheim Baseball Management LLC','2012','2.15 billion');  insert into owners values('12','Ron Fowler','The San Diego Padres','2012','800 million');  insert into owners values('13','Sue Burns','San Francisco Baseball Associates','1992','100 million');  insert into owners values('14','Kenneth Kendrick','AZPB LP, AZPBI Inc','2004','238 million');  insert into owners values('15','Charles Monfort','Colorado Rockies Baseball Club Ltd','1992','95 million');  insert into owners values('16','Hal Steinbrenner','New York Yankees Partnership','2009','10 million');  insert into owners values('17','Edward Rogers','Rogers Blue Jays Baseball Partnership','2008','137 million');  insert into owners values('18','Stuart Sternberg','Tampa Bay Devil Rays Ltd','2004','200 million');  insert into owners values('19','John Angelos','Baltimore Baseball Club Inc','1993','173 million');  insert into owners values('20','John Henry','Boston Red Sox Baseball Club LP','2002','380 million');  insert into owners values('21','Larry Dolan','Cleveland Indians Baseball Co LP','2000','323 million');  insert into owners values('22','First Avenue Entertainment LLLP','Baseball Club of Seattle LP','2016','1.4 billion');  insert into owners values('23','Arturo Moreno','Angels Baseball LP','2003','184 million');  insert into owners values('24','Ray Davis ','Rangers Baseball Express','2004','200 million');  insert into owners values('25','John Fisher','Athletics Investment Group LLC','2005','180 million');  insert into owners values('26','Jerry Reinsdorf','Chicago White Sox Ltd','1981','20 million');  insert into owners values('27','Jim Pohlad','Minnesota Twins, MTI Partnership LLP','2009','44 million');  insert into owners values('28','Chris Illitch','Detroit Tigers Inc','2017','82 million');  insert into owners values('29','John Sherman','none','2019','1 billion');  insert into owners values('30','Jim Crane ','Houston Astros Baseball Club ','2011','610 million');  Commit;    **#11**  **CREATE Table Player**  **(playerid char(5) NOT NULL,**  **Fname varchar(12) NOT NULL,**  **Lname varchar(18) NOT NULL,**  **Lno char(6) NOT NULL,**  **Leaguenum char(5) NOT NULL,**  **Position varchar (35) NOT NULL,**  **PRIMARY KEY(playerid));**  **FOREIGN KEY(Lno) references league\_locations(Lnumber);**  **FOREIGN KEY(leaguenum) references league(Lnumber);**  **insert into player values('99','Max','Scherzer','2','10','Pitcher');**  **insert into player values('98','Gerrit','Cole','16','9','Pitcher');**  **insert into player values('97','Cody','Bellinger','11','2','Outfielder');**  **insert into player values('96','Julilo','Martinez','20','1','Outfielder');**  **insert into player values('95','Trea ','Turner','11','2','Shortstop');**  **insert into player values('94','Vladimir.','Guerrero Jr.','17','3','Third Baseman');**  **insert into player values('93','Christian ','Yelich','7','4','Outfielder');**  **insert into player values('92','Nolan ','Arenado','15','6','Third Baseman');**  **insert into player values('91','Jacob','deGrom','2','10','Pitcher');**  **insert into player values('90','Freddie ','Freeman','11','2','First Baseman');**  **insert into player values('89','Aaron ','Judge','16','9','Outfielder');**  **insert into player values('88','Ronald','Acuna Jr','1','7','Outfielder');**  **insert into player values('87','Mookie ','Betts','11','2','Outfielder');**  **insert into player values('86','Shohei ','Ohtani','23','8','Pitcher');**  **insert into player values('85','Mike ','Trout','23','8','Outfielder');**  **insert into player values('84','Jose','Altuve','30','5','Second Baseman');**  **Commit;**  **---Making a new table named player2 with the same information from the player table**  **drop table player2;**  **create table player2 as select \* from player;**  **select \* from player2;**  **select \* from player2 where playerid = 99;**  **drop table test\_update\_player2\_log;**  **--You should now have a new table named player2 with the player table info and now you going to create**  **--a new table called test\_update\_player2\_log**  **Create table test\_update\_player2\_log**  **(**  **user\_name varchar2(20),**  **date\_time timestamp(6),**  **POSITION\_OLD varchar2(20),**  **POSITION\_NEW varchar2(20));**  **select \* from test\_update\_player2\_log;**  **desc player2;**  **Create or replace trigger test\_update\_player2**  **After update on player2**  **for each row**  **begin**  **insert into test\_update\_player2\_log**  **values(USER,SYSDATE,:OLD.Position,:NEW.Position);**  **END;**  **select \* from player2;**  **----run these commands**  **update player2 set position = 'Starting Pitcher' where playerid = 99;**  **update player2 set position = 'Starting Pitcher' where playerid = 98;**  **update player2 set position = 'Center Fielder' where playerid = 97;**  **update player2 set position = 'DH' where playerid = 96;**  **update player2 set position = 'SS' where playerid = 95;**  **update player2 set position = 'First Baseman' where playerid = 94;**  **update player2 set position = 'Left Fielder' where playerid = 93;**  **update player2 set position = 'Infielder' where playerid = 92;**  **update player2 set position = 'Starting Pitcher' where playerid = 91;**  **update player2 set position = 'Infielder' where playerid = 90;**  **update player2 set position = 'Right Fielder' where playerid = 89;**  **update player2 set position = 'Right Fielder' where playerid = 88;**  **select \* from test\_update\_player2\_log;** |  |

**#12**

CREATE TABLE manager

(superplayerid char(6) NOT NULL,

Fname varchar(25) NOT NULL,

Lname varchar(25) NOT NULL,

Lno char(5) NOT NULL,

Salary decimal NOT NULL,

PRIMARY KEY(superplayerid));

FOREIGN KEY(superplayerid) references player(superplayerid);

FOREIGN KEY(Lno) references league\_locations(Lnumber);

FOREIGN KEY(Lno) references league(Lnumber);

insert into manager values('1','Alex','Cora','20','800000');

insert into manager values('2','Dave ','Roberts','11','650000');

insert into manager values('3','John','Schneider','17','77900');

insert into manager values('4','Craig','Counsell','7','1500000');

insert into manager values('5','Dusty','Baker','30','1200000');

insert into manager values('6','Bud','Black','15','1500000');

insert into manager values('7','Brian','Snitker','1','800000');

insert into manager values('8','Phil','Nevin','23','1150000');

insert into manager values('9','Aaron','Boone','16','1150000');

insert into manager values('10','Buck','Showalter','2','4000000');

Commit;

**/\***

**select \* from tab;**

**drop table manager3;**

**Create table manager3 as select \* from manager;**

**select \* from manager3;**

**drop table manager3;**

**drop package pg\_manager;**

**commit;**

**\*/**

**Create or replace package pg\_manager as**

**Procedure GiveRaise(p\_superplayerid char, pct\_raise number);**

**Procedure Reset\_Salary (p\_superplayerid char, pct\_raise number);**

**End pg\_manager;**

**/**

**Create or replace package body pg\_manager as**

**--raise the salary of the manager**

**Procedure GiveRaise (p\_superplayerid char, pct\_raise number)**

**IS**

**BEGIN**

**update manager3 set salary = salary \* (pct\_raise +1 ) where superplayerid = p\_superplayerid;**

**End GiveRaise;**

**--Reset the salary**

**Procedure Reset\_Salary(p\_superplayerid char, pct\_raise number)**

**IS**

**BEGIN**

**update manager3 set salary = salary /(pct\_raise +1) where superplayerid = p\_superplayerid;**

**End Reset\_Salary;**

**END;**

**/**

**--Main Program**

**Declare**

**NewSalary manager.salary%type;**

**OriginalSalary manager.salary%type;**

**BEGIN**

**select salary into OriginalSalary from manager3 where superplayerid = '9';**

**DBMS\_OUTPUT.PUT\_LINE('Original Salary is '||OriginalSalary);**

**pg\_manager.GiveRaise('9', .05);**

**select salary into NewSalary from manager3 where superplayerid = '9';**

**DBMS\_OUTPUT.PUT\_LINE('New Salary is '||NewSalary);**

**pg\_manager.Reset\_Salary('9', .05);**

**select salary into OriginalSalary from manager3 where superplayerid = '9';**

**DBMS\_OUTPUT.PUT\_LINE('Original Salary is '||OriginalSalary);**

**END;**

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**#13**

CREATE Table Parents

(ParID char(6) NOT NULL,

Fname varchar(25) NOT NULL,

Lname varchar(25) NOT NULL,

City varchar(25) NOT NULL,

State varchar(50) NOT NULL,

PRIMARY KEY (ParID,fname));

FOREIGN KEY (ParID) references player (playerid));

insert into parents values('99','Brad','Scherzer','Chesterfield','Missouri');

insert into parents values('99','Jan','Scherzer','Chesterfield','Missouri');

insert into parents values('98','Mark','Cole','Newport','California');

insert into parents values('98','Sharon ','Cole','Newport','California');

insert into parents values('97','Clay ','Bellinger','Scottsdale','Arizona');

insert into parents values('97','Jennifer','Bellinger','Scottsdale','Arizona');

insert into parents values('96','Julio ','Martinez','Miami','Florida');

insert into parents values('96','Mayra','Martinez','Miami','Florida');

insert into parents values('95','Mark','Turner','Boynton Beach','Florida');

insert into parents values('95','Donna','Turner','Boynton Beach','Florida');

insert into parents values('94','Vladimir ','Guerrero Sr','Anaheim','California');

insert into parents values('94','Riquelma','Ramos','Anaheim','California');

insert into parents values('93','Stephen','Yelich','Thousand Oaks','California');

insert into parents values('93','Alecia','Relic','Thousand Oaks','California');

insert into parents values('92','Fernando','Arenado','Newport','California');

insert into parents values('92','Millie','Arenado','Newport','California');

insert into parents values('91','Tony','deGrom','Deleon Springs','Florida');

insert into parents values('91','Tammy','deGrom','Deleon Springs','Florida');

insert into parents values('90','Fred','Freeman','Fountain Valley','California');

insert into parents values('90','Rosemary','Freeman','Fountain Valley','California');

insert into parents values('89','Wayne','Judge','Sacramento','California');

insert into parents values('89','Patty ','Judge','Sacramento','California');

insert into parents values('88','Ronald','Acuna Sr','La Guaira','Venezuela');

insert into parents values('88','Leonelis','Blanco','La Guaira','Venezuela');

insert into parents values('87','Willie','Betts','Nashville','Tennessee');

insert into parents values('87','Diana','Benedict','Nashville','Tennessee');

insert into parents values('86','Toru','Ohtani','Oshu,Iwate','Japan');

insert into parents values('86','Kayoko','Ohtani','Oshu,Iwate','Japan');

insert into parents values('85','Jeff','Trout','Milville','New Jersey');

insert into parents values('85','Debbie','Busonick','Milville','New Jersey');

insert into parents values('84','Carlos','Altuve Sr','Maracay','Venezuela');

insert into parents values('84','Lastenia','Linares','Maracay','Venezuela');

Commit;

**/\***

**drop table parents2;**

**create table parents2 as select \* from parents;**

**select \* from parents2;**

**select \* from parents2 where parid = 99;**

**drop table test\_update\_parents2\_log;**

**\*/**

**Create table test\_update\_parents2\_log**

**--should be apex public user for me**

**(user\_name varchar2(20),**

**--should be the current time**

**date\_time timestamp(6),**

**LNAME\_OLD varchar2(20),**

**LNAME\_NEW varchar2(20));**

**select \* from test\_update\_parents2\_log;**

**desc parents2;**

**--creates a new trigger named test update parents2**

**Create or replace trigger test\_update\_parents2**

**after update on parents2**

**for each row**

**begin**

**insert into test\_update\_parents2\_log**

**--I want to shorten the last name for the parents table**

**values(USER,SYSDATE,:OLD.LNAME,:NEW.LNAME);**

**END;**

**select \* from parents2;**

**--run these commands**

**update parents2 set lname = 'S.' where parid = 99;**

**update parents2 set lname = 'C.' where parid = 98;**

**update parents2 set lname = 'B.' where parid = 97;**

**update parents2 set lname = 'M.' where parid = 96;**

**update parents2 set lname = 'T.' where parid = 95;**

**update parents2 set lname = 'G.' where parid = 94;**

**update parents2 set lname = 'Y.' where parid = 93;**

**update parents2 set lname = 'A.' where parid = 92;**

**update parents2 set lname = 'D.' where parid = 91;**

**update parents2 set lname = 'F.' where parid = 90;**

**update parents2 set lname = 'J.' where parid = 89;**

**update parents2 set lname = 'A.' where parid = 88;**

**update parents2 set lname = 'B.' where parid = 87;**

**update parents2 set lname = 'O.' where parid = 86;**

**update parents2 set lname = 'T.' where parid = 85;**

**update parents2 set lname = 'A.' where parid = 84;**

**select \* from test\_update\_parents2\_log;**

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**#14**

**CREATE TABLE dependent**

**(eplayerid char(6) NOT NULL,**

**DependentName varchar(35) NOT NULL,**

**Sex varchar(9) NOT NULL,**

**Birthday varchar(15)NOT NULL,**

**Relationship varchar(15) NOT NULL,**

**PRIMARY KEY(eplayerid , DependentName));**

**FOREIGN KEY(eplayerID) references player(playerid);**

**insert into dependent values('99','Erica-May Scherzer','Female','January 30,1986','Spouse');**

**insert into dependent values('98','Amy Crawford','Female','January 10,1989','Spouse');**

**insert into dependent values('97','Chase Carter','Female','June 10,1997','Spouse');**

**insert into dependent values('96','Ariana Aubert','Female','May 10,1989','Spouse');**

**insert into dependent values('94','Kristen Harabedian','Female','May 1,992','Spouse');**

**insert into dependent values('93','Emily Balkind','Female','Unknown','Spouse');**

**insert into dependent values('92','Laura Kwan','Female','Unknown','Spouse');**

**insert into dependent values('91','Stacey deGrom','Female','Unknown','Spouse');**

**insert into dependent values('90','Chelsea Goff','Female','April 24,1994','Spouse');**

**insert into dependent values('89','Samantha Bracksieck','Female','August 12,1993','Spouse');**

**insert into dependent values('88','Eva Luccia','Female','Unknown','Spouse');**

**insert into dependent values('87','Brianna Hammonds','Female','August 7th, 1994','Spouse');**

**insert into dependent values('85','Jessica Coxx','Female','October 5,1989','Spouse');**

**insert into dependent values('84','Nina Altuve','Female','February 2,1992','Spouse');**

**Commit;**

**/\***

**drop table dependent2;**

**create table dependent2 as select \* from dependent;**

**select \* from dependent2;**

**select \* from dependent2 where eplayerid = 99;**

**drop table test\_update\_dependent2\_log;**

**\*/**

**create table test\_update\_dependent2\_log**

**(user\_name varchar2(20),**

**date\_time timestamp(6),**

**Relationship\_OLD varchar2(20),**

**Relationship\_NEW varchar2(20));**

**select \* from test\_update\_dependent2\_log;**

**desc dependent2;**

**create or replace trigger test\_update\_dependent2**

**after update on dependent2**

**for each row**

**begin**

**insert into test\_update\_dependent2\_log**

**values(USER,SYSDATE,:OLD.Relationship,:NEW.Relationship);**

**END;**

**select \* from dependent2;**

**--run these commands**

**update dependent2 set relationship = 'Wife' where eplayerid = '99';**

**update dependent2 set relationship = 'Wife' where eplayerid = '98';**

**update dependent2 set relationship = 'Wife' where eplayerid = '97';**

**update dependent2 set relationship = 'Wife' where eplayerid = '96';**

**update dependent2 set relationship = 'Wife' where eplayerid = '94';**

**update dependent2 set relationship = 'Wife' where eplayerid = '93';**

**update dependent2 set relationship = 'Wife' where eplayerid = '92';**

**update dependent2 set relationship = 'Wife' where eplayerid = '91';**

**update dependent2 set relationship = 'Wife' where eplayerid = '90';**

**update dependent2 set relationship = 'Wife' where eplayerid = '89';**

**update dependent2 set relationship = 'Wife' where eplayerid = '88';**

**update dependent2 set relationship = 'Wife' where eplayerid = '85';**

**update dependent2 set relationship = 'Wife' where eplayerid = '84';**

**select \* from test\_update\_dependent2\_log;**

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**#15**

**CREATE TABLE practice**

**(Pname varchar(25) NOT NULL,**

**Pnumber char(5) NOT NULL,**

**Plocation varchar(25) NOT NULL,**

**Lnum char(6) NOT NULL,**

**Trainername varchar(25) NOT NULL,**

**PRIMARY KEY(Pnumber));**

**FOREIGN KEY(Lum) references player(Lno);**

**insert into practice values('Wiffle Ball Batting','55','Southaven','1','John');**

**insert into practice values('Skill Building','60','Horn Lake','2','Bob');**

**insert into practice values('Playing Catch','65','Hernando','1','Craig');**

**insert into practice values('Rundowns','70','Walls','2','Robert');**

**insert into practice values('Batting','75','Olive Branch','1','Don');**

**insert into practice values('Scrimmage','80','Como','2','Micheal');**

**insert into practice values('Base Running','85','Oxford','2','Sam');**

**insert into practice values('Flyballs','90','Southaven','1','Billy');**

**insert into practice values('Mass Groundballs','95','Horn Lake','1','David');**

**insert into practice values('Flyball Communication','100','Walls','1','Jose');**

**Commit;**

**/\***

**drop table practice2;**

**create table practice2 as select \* from practice;**

**select \* from practice2;**

**select \* from practice2 where pnumber = 55;**

**drop table test\_update\_practice2\_log;**

**\*/**

**Create table test\_update\_practice2\_log**

**(user\_name varchar2(20),**

**date\_time timestamp(6),**

**PLocation\_OLD varchar2(20),**

**PLocation\_NEW varchar2(20));**

**select \* from test\_update\_practice2\_log;**

**desc practice2;**

**CREATE OR REPLACE TRIGGER test\_update\_practice2**

**AFTER UPDATE ON practice2**

**for each row**

**begin**

**INSERT INTO test\_update\_practice2\_log**

**VALUES(USER, SYSDATE, :OLD.PLocation, :NEW.PLocation);**

**End;**

**select \* from practice2;**

**--run these commands**

**update practice2 set plocation = 'Southaven, MS' where pnumber = 55;**

**update practice2 set plocation = 'Horn Lake, MS' where pnumber = 60;**

**update practice2 set plocation = 'Hernando, MS' where pnumber = 65;**

**update practice2 set plocation = 'Walls, MS' where pnumber = 70;**

**update practice2 set plocation = 'Olive Branch, MS' where pnumber = 75;**

**update practice2 set plocation = 'Como, MS' where pnumber = 80;**

**update practice2 set plocation = 'Oxford, MS' where pnumber = 85;**

**update practice2 set plocation = 'Southaven, MS' where pnumber = 90;**

**update practice2 set plocation = 'Horn Lake, MS' where pnumber = 95;**

**update practice2 set plocation = 'Walls, MS' where pnumber = 100;**

**--Show the outputs**

**select \* from test\_update\_practice2\_log;**

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