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| ***Introduction To Database*** | **Project Fall**  **2019-20** |

**Project Name: Team Management System**

**Course Teacher: Kawser Irom Rushee**

**Group Members**

|  |  |
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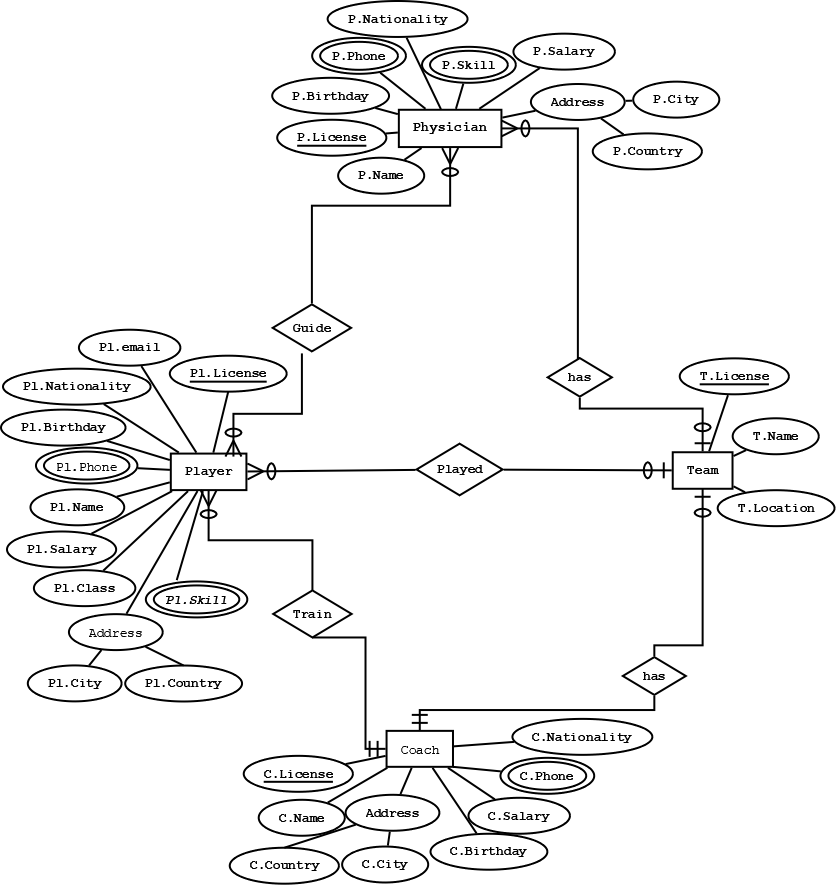
* **Table Creation query with screenshot. (Table should include Constraints)**
* **Tables screenshot with data (Each Table should include 3 rows of data)**
* **Query with data screenshot (4 joining query (4 type of joining must be included),2 Sub query (1 subquery using group function),1 view)**
* **Enable, disable constraints of table with screenshot (1 query)**
* **Relational Algebra (2)**

**Scenario**

1. A club organized a football match. Two teams play that match. One team consist of many players. Many players play in a one team. Team has team unique license, team name, team location. Every player has a unique License, name, salary, class, email, nationality, Birthday. And every player has address city and country, multiple skill and phone. Players are trained by a coach. Many players trained a coach and also many players trained by many coaches. One team has many coaches and also many coaches are in one team. Each coach has a unique License, name, salary, nationality, Birthday. And every Coach has address city and country, multiple phone and skill. Team has also physician. Physician guide the player. Many players guided by an physician and also many physician guided many players. A team has an physician and also many physician are in a team. Physician has a unique License,

name, salary, class, email, nationality, Birthday. And every player has address city and country, multiple skill and phone.

**ER diagram**



**Normalization**

**UNF:** (Player & Team)

pllicence , plname , plskill , plphn , plemail , plbirthday , plnationality , plclass , plsalary , plcity , plcountry , t.licence , t.name , location

**1NF :** (Player & Team)

pllicence , plname , plskill , plphn , plemail , plbirthday , plnationality , plclass , plsalary , plcity , plcountry , t.licence , t.name , location

**2NF :** (Player & Team)

**1st :** pllicence , plname , plphn , plemail , plbirthday , plnationality , plclass , plsalary , plcity , plcountry , t.licence

**2nd :** pllicence , plskill

**4th:** t.licence , t.name , location

**3NF :** (Player & Team)

**1st :** pllicence , plname , plphn , plemail , plbirthday , plnationality , plclass , plcity , t.licence

**2nd:** plclass , plsalary

**3rd:** plcity , plcountry

**4th :** pllicence , plskill

**5th:** t.licence , t.name , location

**UNF:** (Player & Physician)

pllicence , plname , plskill , plphn , plemail , plbirthday , plnationality , plclass , plsalary , plcity , plcountry , plicence , pname , pskill , pphn, pbirthday , pnationality , psalary , pcity , pcountry

**1NF :** (Player & Physician)

pllicence , plname , plskill , plphn , plemail , plbirthday , plnationality , plclass , plsalary , plcity , plcountry , plicence , pname , pskill , pphn, pbirthday , pnationality , psalary , pcity , pcountry

**2NF :** (Player & Physician)

**1st :** pllicence , plname ,plphn , plemail , plbirthday , plnationality , plclass , plsalary , plcity , plcountry

**2nd :** pllicence , plskill

**3th:** plicence , pname ,pphn , pbirthday , pnationality , psalary , pcity , pcountry

**4th:** plicence , pskill

**5th:** pllicence , plicence

**3NF :** (Player & Physician)

**1st :** pllicence , plname ,plphn , plemail , plbirthday , plnationality , plclass , plcity

**2nd:** plclass , plsalary

**3rd:** plcity , plcountry

**4th :** pllicence , plskill

**5th:** plicence , pname, pphn , pbirthday , pnationality , psalary , pcity

**6th:** plicence , pskill

**7th:** pcity , pcountry

**8th:** pllicence , plicence

**UNF:** (Player & Coach)

pllicence , plname , plskill , plphn , plemail , plbirthday , plnationality , plclass , plsalary , plcity , plcountry , clicence , cname , cphn , cbirthday , cnationality , csalary , ccity , ccountry

**1NF :** (Player & Coach)

pllicence , plname , plskill , plphn , plemail , plbirthday , plnationality , plclass , plsalary , plcity , plcountry , clicence , cname , cphn , cbirthday , cnationality , csalary , ccity , country

**2NF :** (Player & Coach)

**1st :** pllicence , plname , plphn , plemail , plbirthday , plnationality , plclass , plsalary , plcity , plcountry , clicence

**2nd :** pllicence , plskill

**3th:** clicence , cname ,cphn , cbirthday , cnationality , csalary , ccity , country

**3NF :** (Player & Coach)

**1st :** pllicence , plname ,plphn , plemail , plbirthday , plnationality , plclass , plcity , c.licence

**2nd:** plclass , plsalary

**3rd:** plcity , plcountry

**4th:** pllicence , plskill

**5th:** clicence , cname ,cphn , cbirthday , cnationality , csalary , ccity

**6th:** ccity , country

**UNF:** (Coach & Team)

clicence , cname , cphn , cbirthday , cnationality , csalary , ccity , ccountry , t.licence , t.name , location

**1NF :** (Coach & Team)

clicence , cname , cphn , cbirthday , cnationality , csalary , ccity , ccountry , t.licence , t.name , location

**2NF :** (Coach & Team)

**1st:** clicence , cname ,cphn , cbirthday , cnationality , csalary , ccity , country , t.licence

**2nd:** t.licence , t.name , location

**3NF :** (Coach & Team)

**1st:** clicence , cname ,cphn , cbirthday , cnationality , csalary , ccity , t.licence

**2nd:** ccity , country

**3rd:** t.licence , t.name , location

**UNF:** (Physician & Team)

plicence , pname , pskill , pphn, pbirthday , pnationality , psalary , pcity , pcountry , t.licence , t.name , location

**1NF :** (Physician & Team)

plicence , pname , pskill , pphn, pbirthday , pnationality , psalary , pcity , pcountry , t.licence , t.name , location

**2NF :** (Physician & Team)

**1st:** plicence , pname ,pphn , pbirthday , pnationality , psalary , pcity , pcountry ,tlicence

**2nd:** plicence , pskill

**3rd:** t.licence , t.name , location

**3NF :** (Physician & Team)

**1st:** plicence , pname ,pphn , pbirthday , pnationality , psalary , pcity , tlicence

**2nd:** plicence , pskill

**3rd:** pcity , pcountry

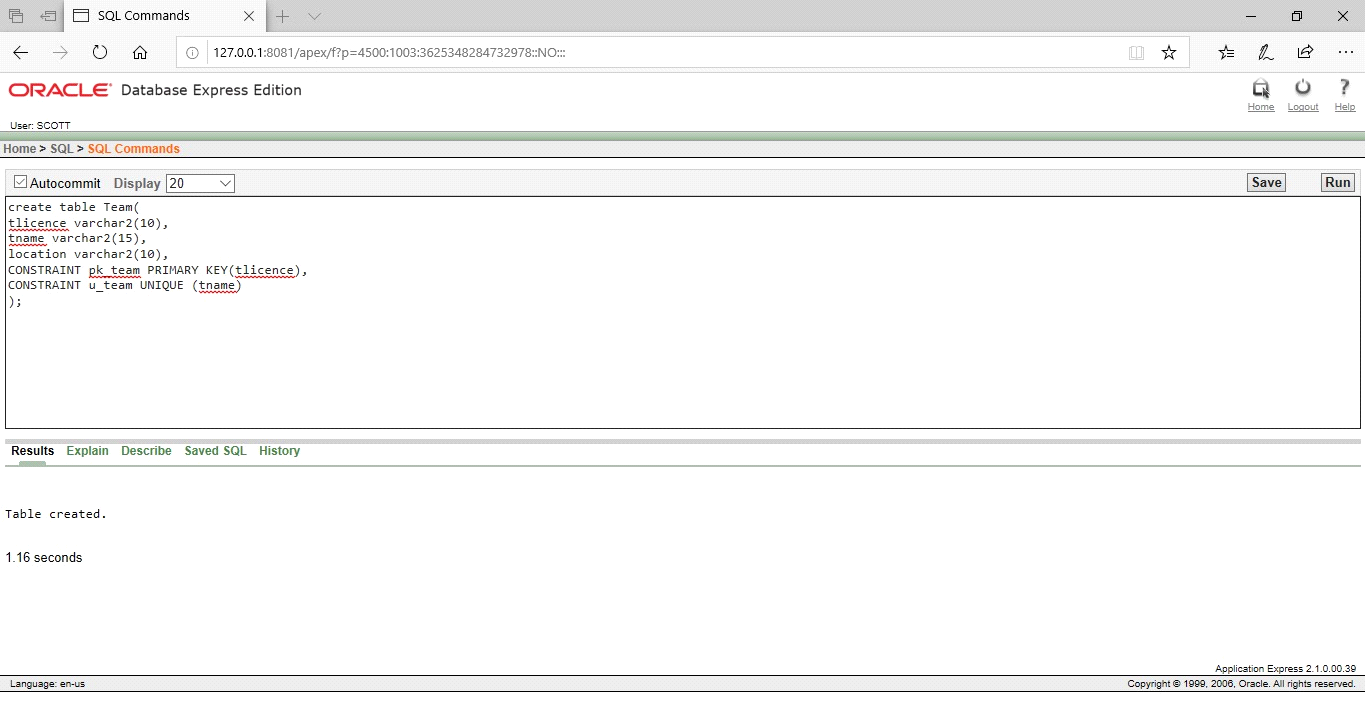
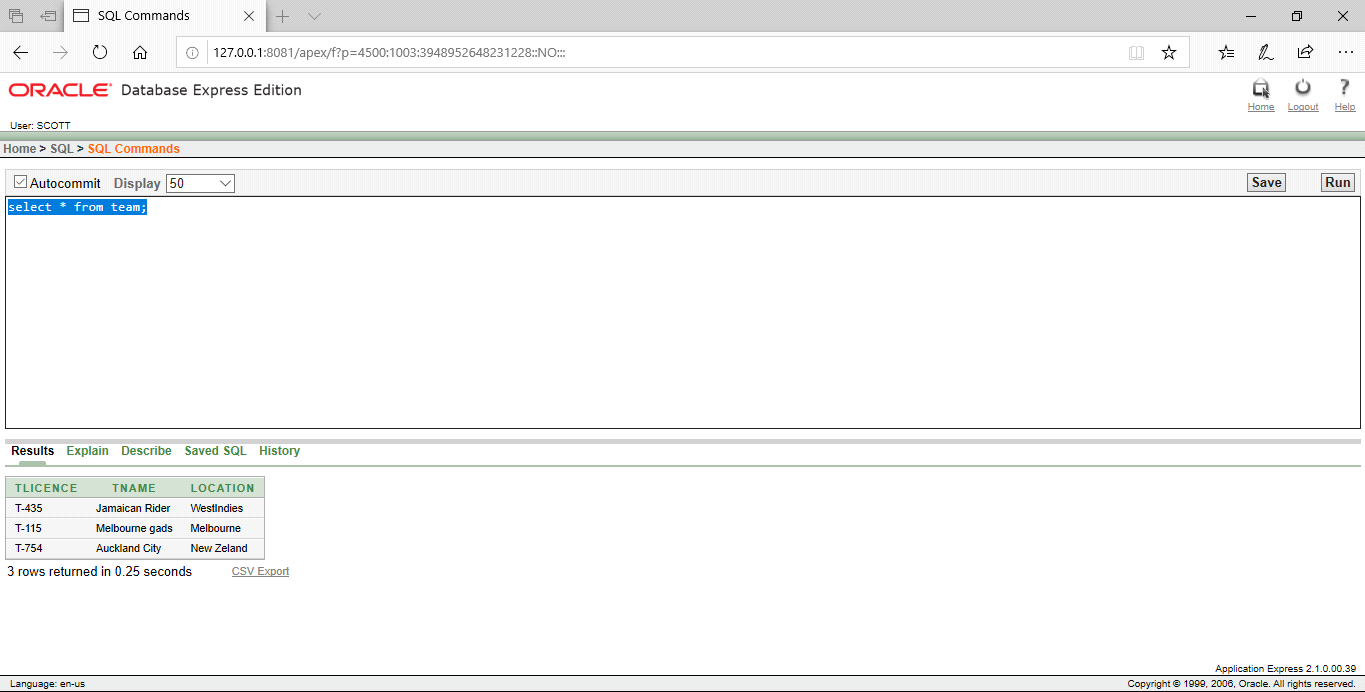
**5th:** t.licence , t.name , location

**TABLE**

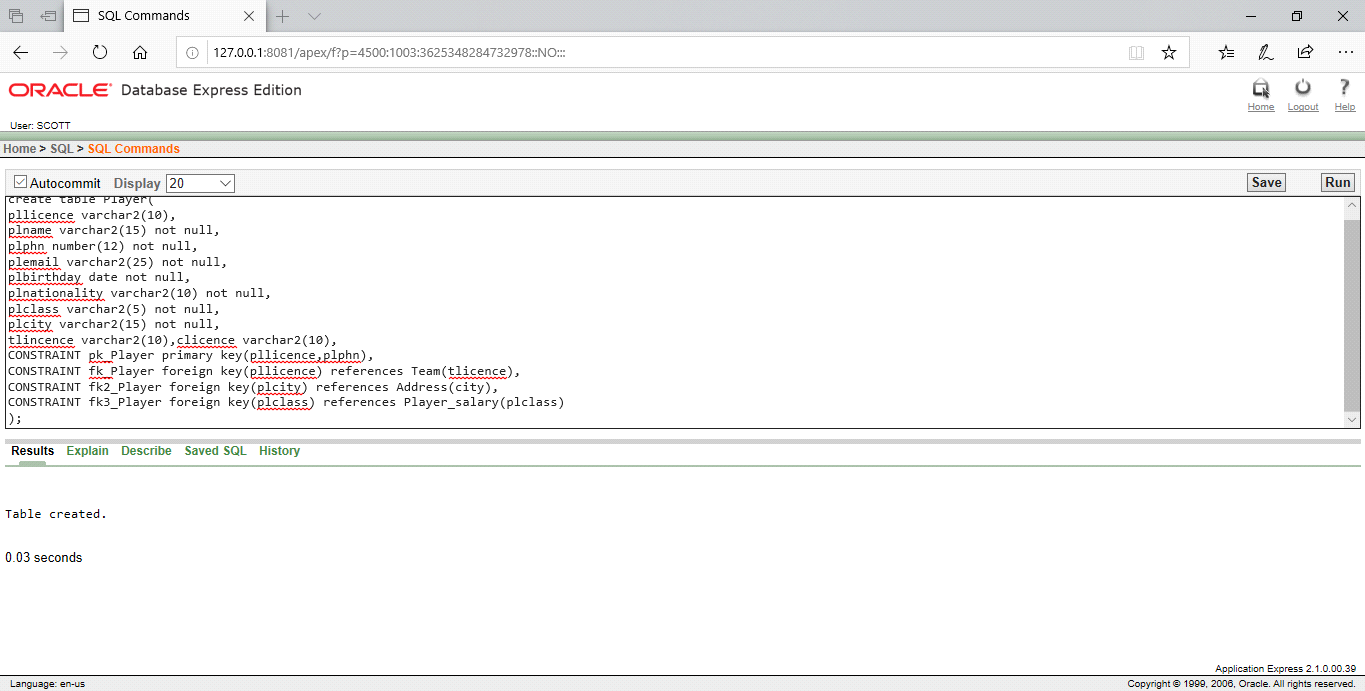
|  |  |  |  |
| --- | --- | --- | --- |
| **No.** | **Table Name** | **Attribute** | **Constraint** |
| 1 | Team | t.licence , t.name , location | CONSTRAINT pk\_team, CONSTRAINT u\_team |
| 2 | Player | pllicence , plname ,plphn , plemail , plbirthday , plnationality , plclass , plcity , t.licence, c.licence | CONSTRAINT pk\_Player, fk\_Player, fk2\_Player, fk3\_Player, ck\_Player\_salary |
| 3 | Player\_salary | plclass , plsalary | CONSTRAINT pk\_Player\_salary, ck\_Player\_salary |
| 4 | Player\_skill | pllicence , plskill | CONSTRAINT pk\_Player\_skill |
| 5 | Physician | plicence , pname ,pphn , pbirthday , pnationality , psalary , pcity , tlicence | CONSTRAINT pk\_Physician, fk\_Physician, fk2\_Physician |
| 6 | Physician\_skill | plicence , pskill | CONSTRAINT pk\_Physician\_skill |
| 7 | Rel\_player\_ physician | pllicence , plicence | CONSTRAINT pk\_Rel\_player\_physician |
| 8 | Coach | clicence , cname ,cphn , cbirthday , cnationality , csalary , ccity , t.licence | CONSTRAINT nnl\_Coach, pk\_Coach, fk\_Coach, fk2\_Coach |
| 9 | Address | city , country | CONSTRAINT pk\_Address |

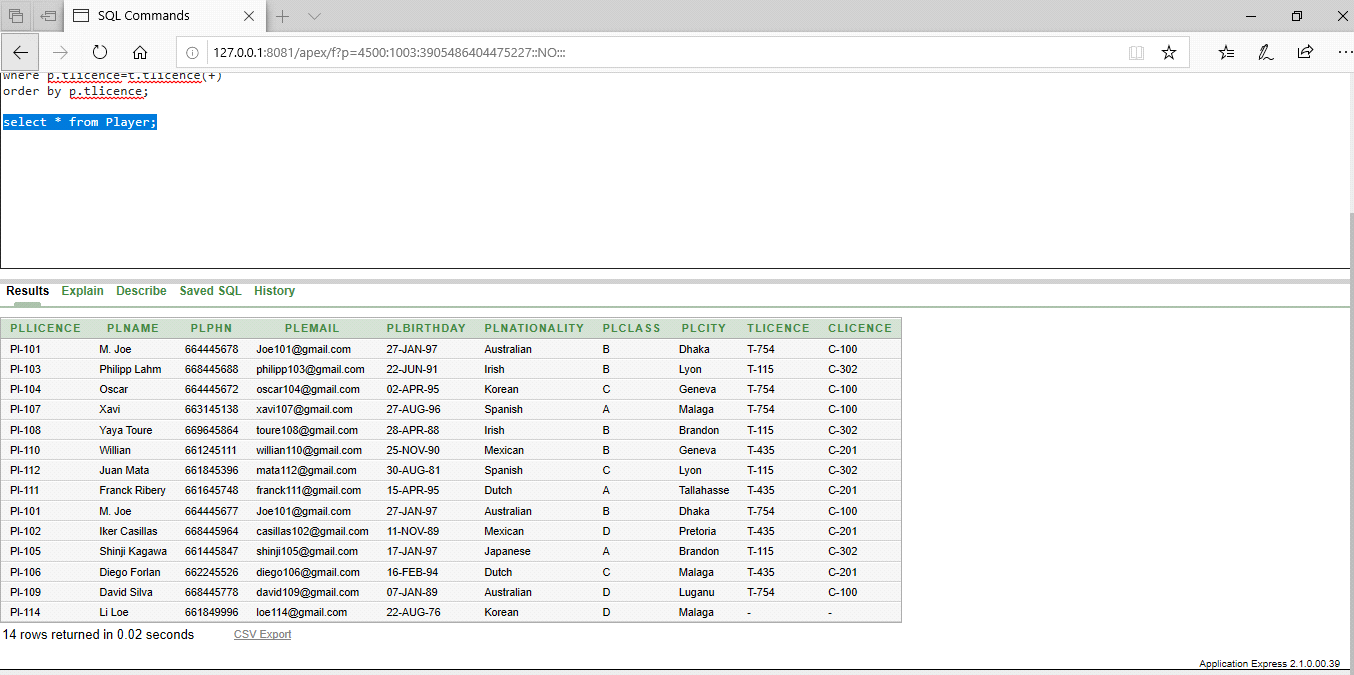
**Table create with inserted value**

**Team**

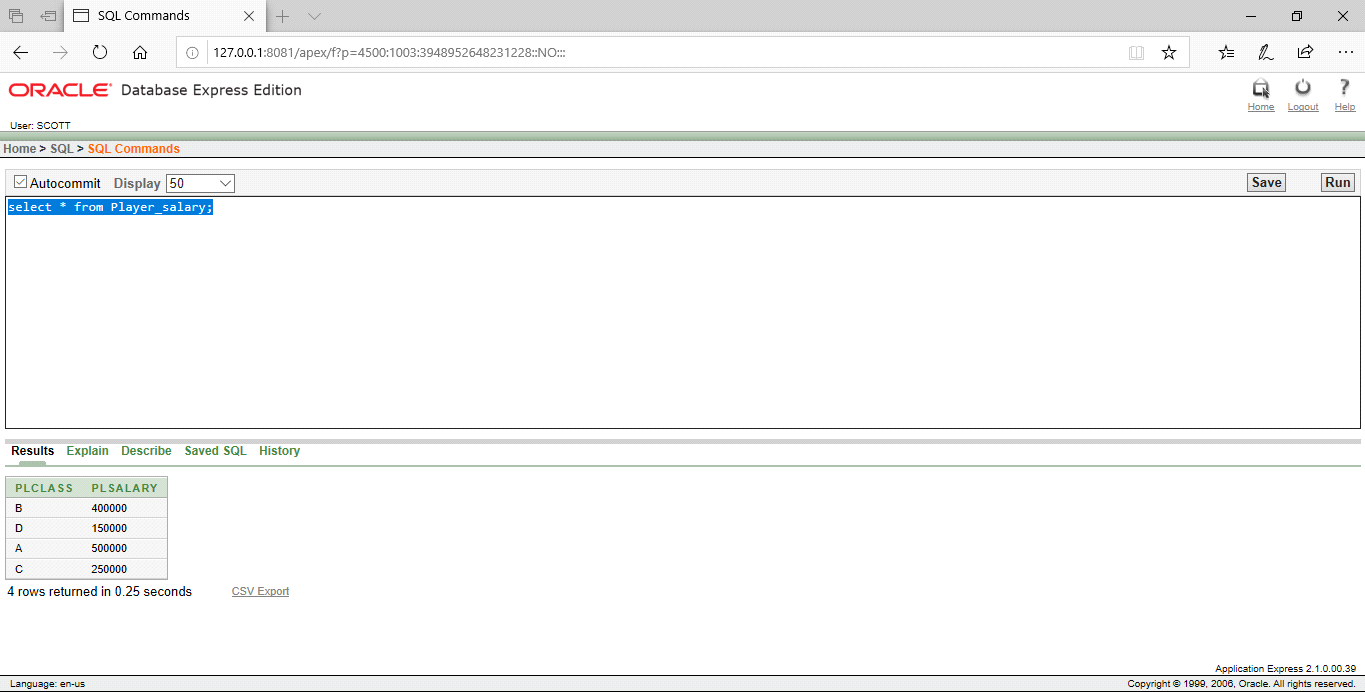
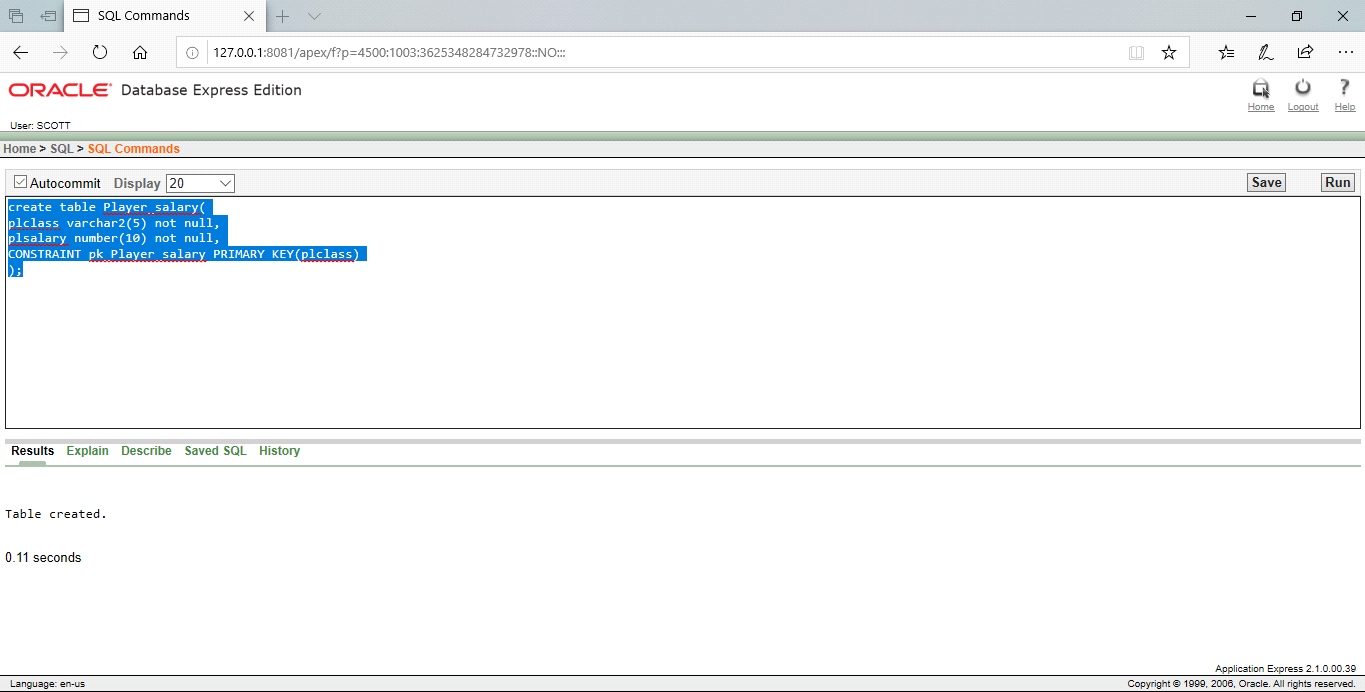


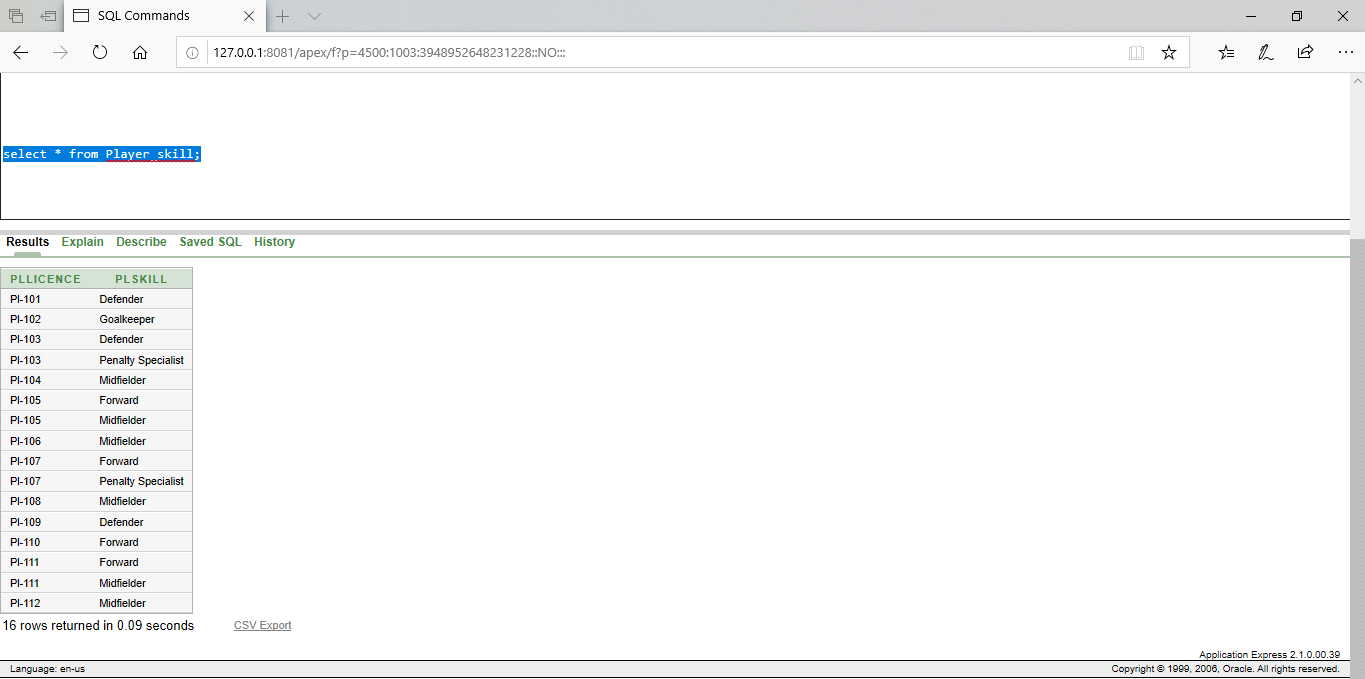
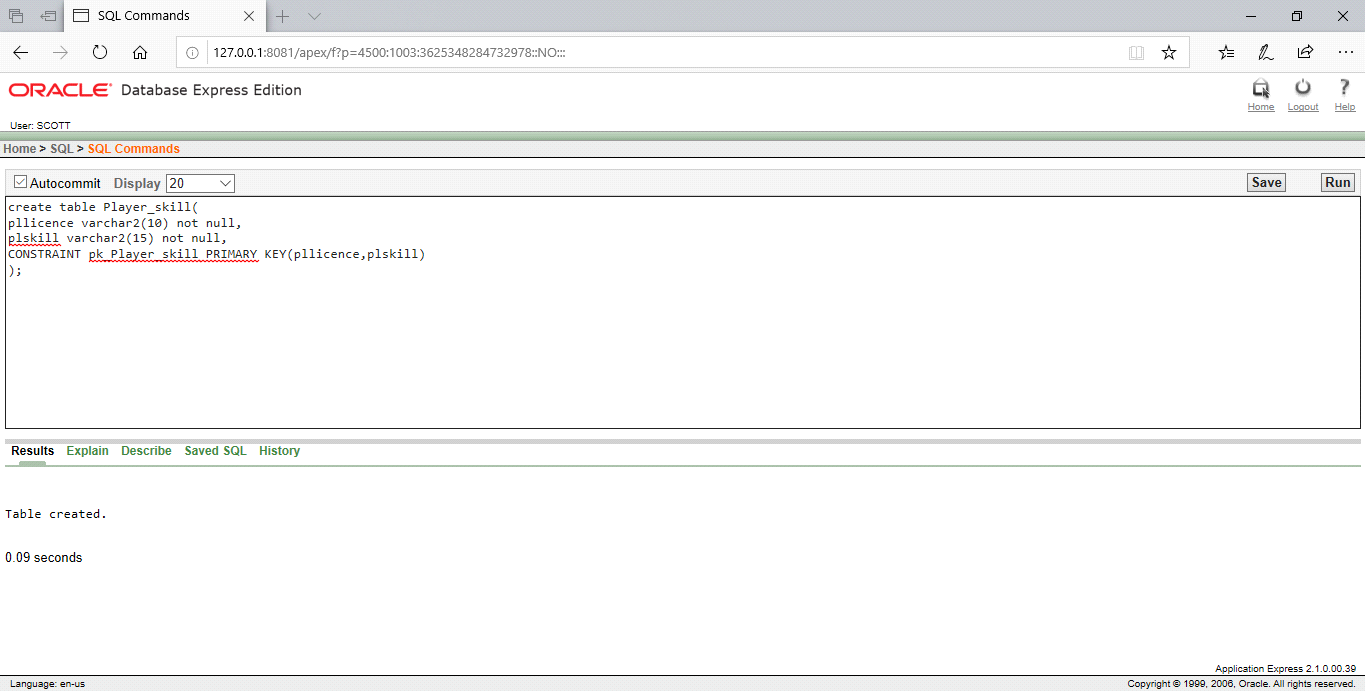
**Player**



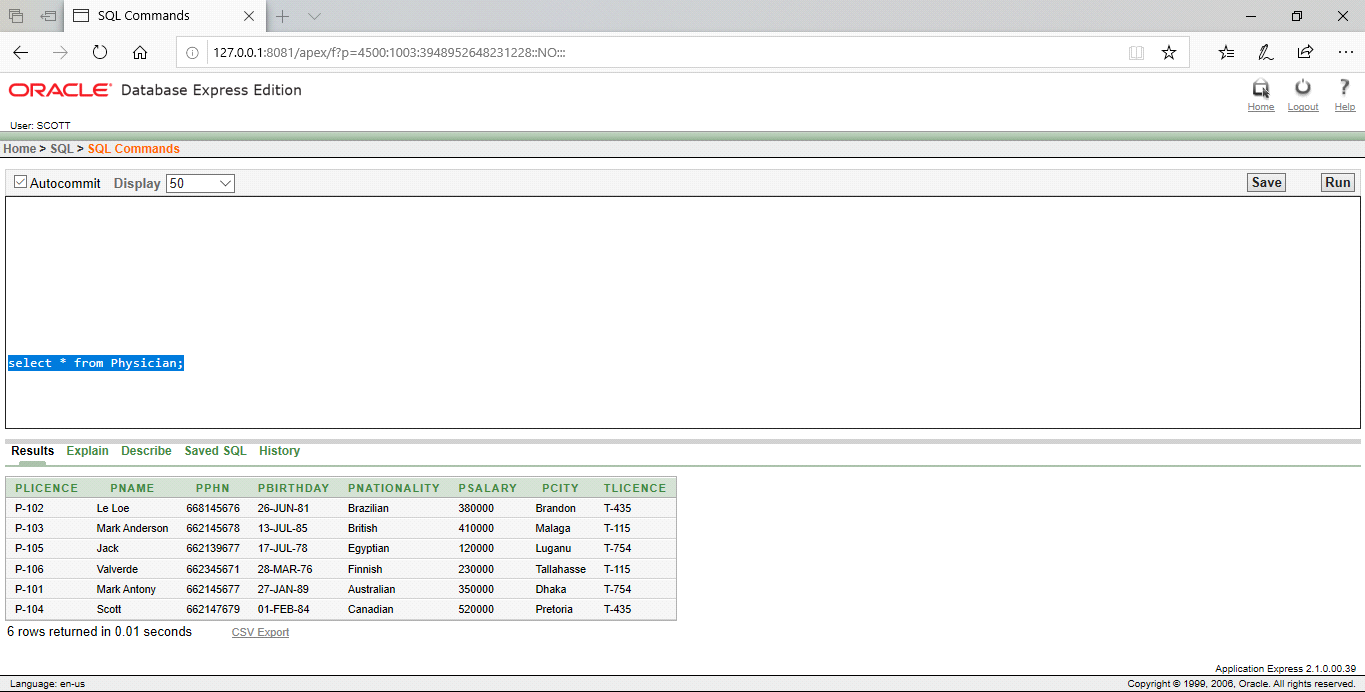
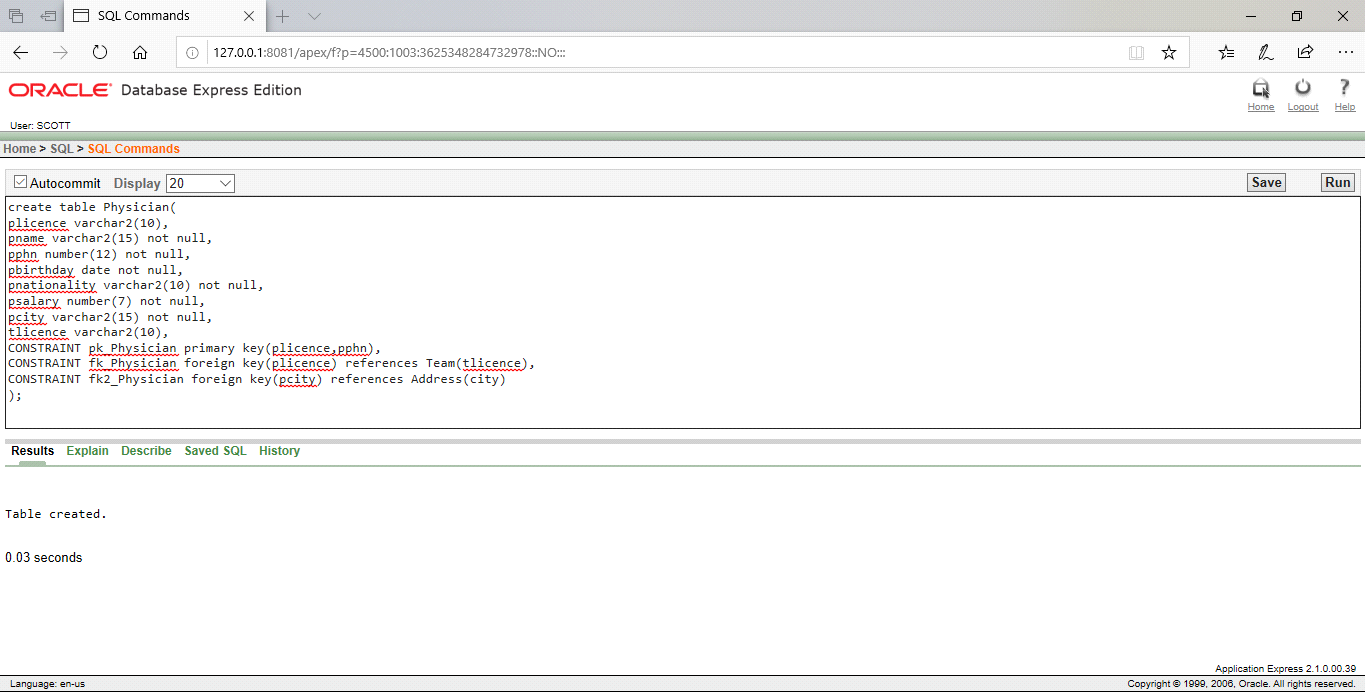


**Player\_salary**

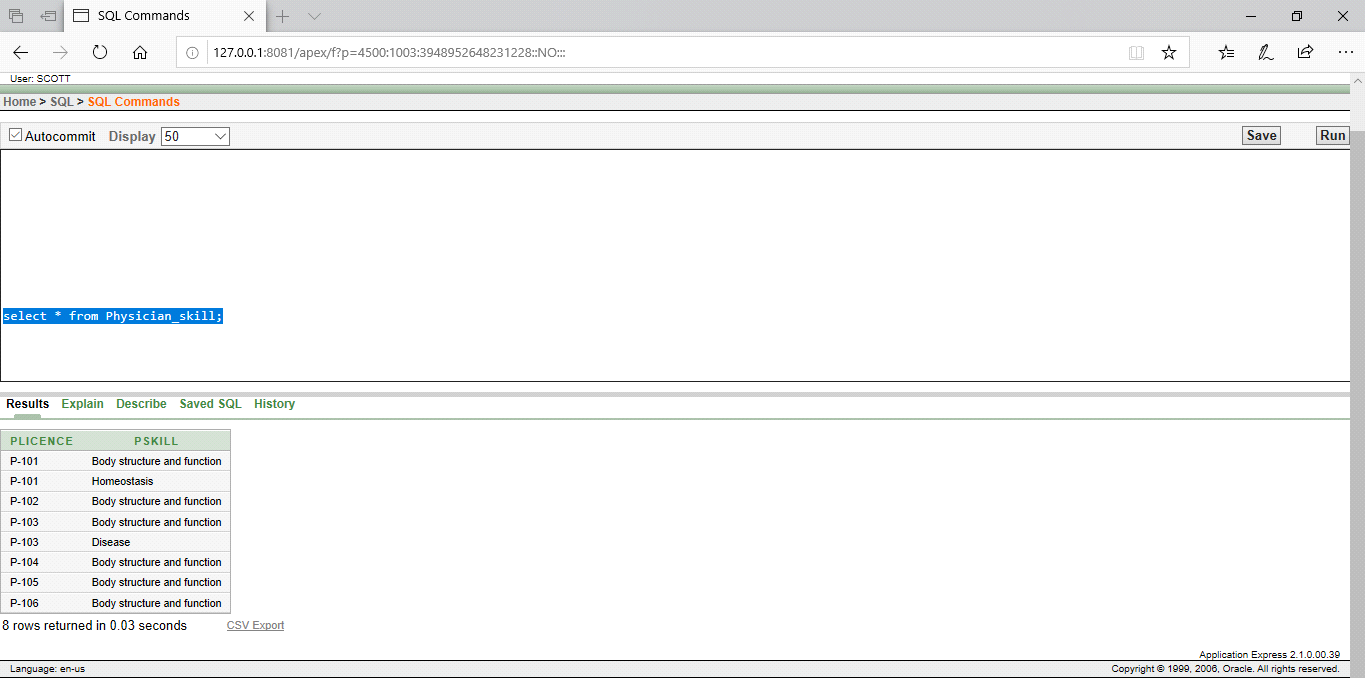
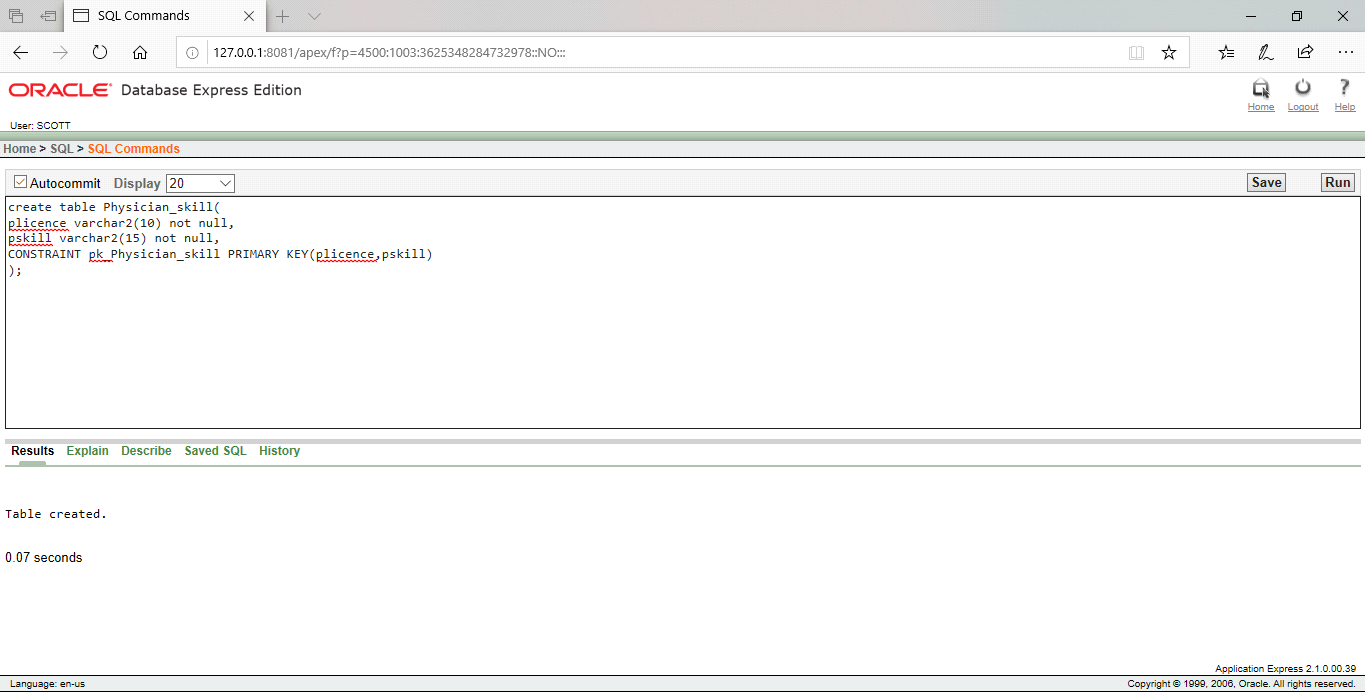


**Player\_skill**

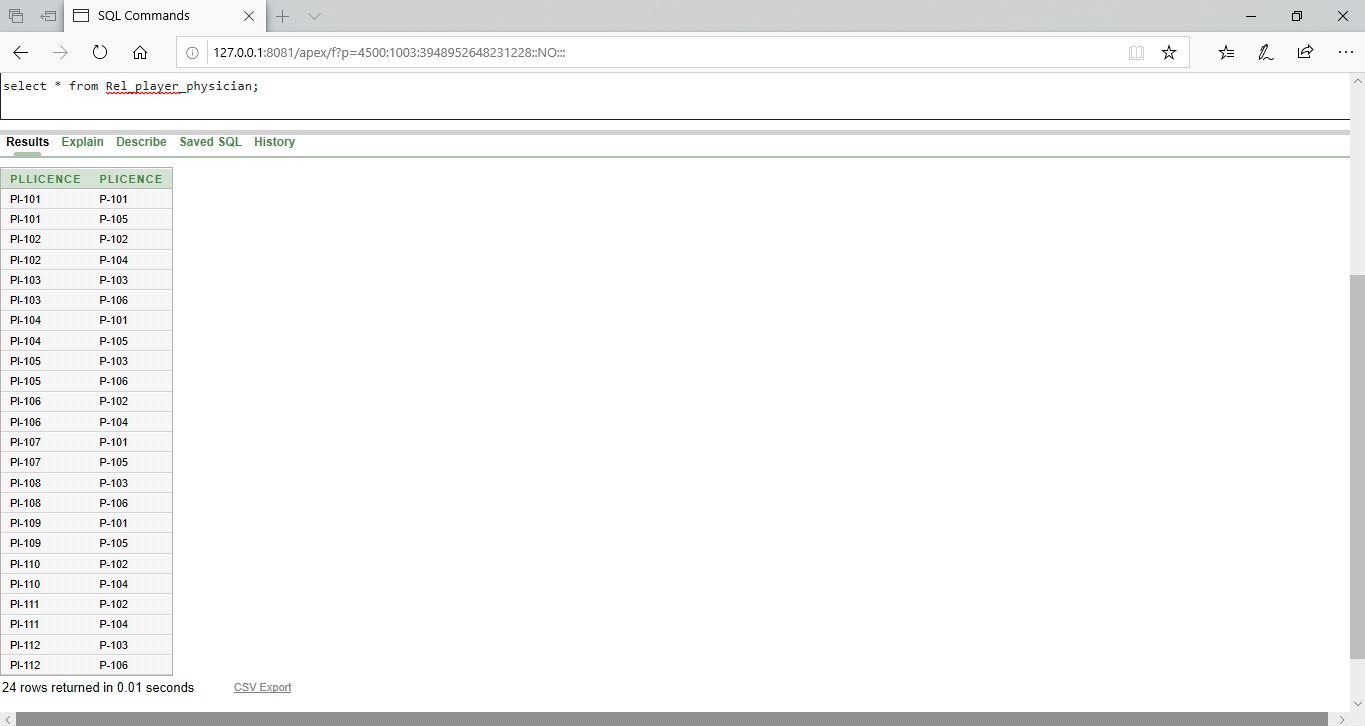
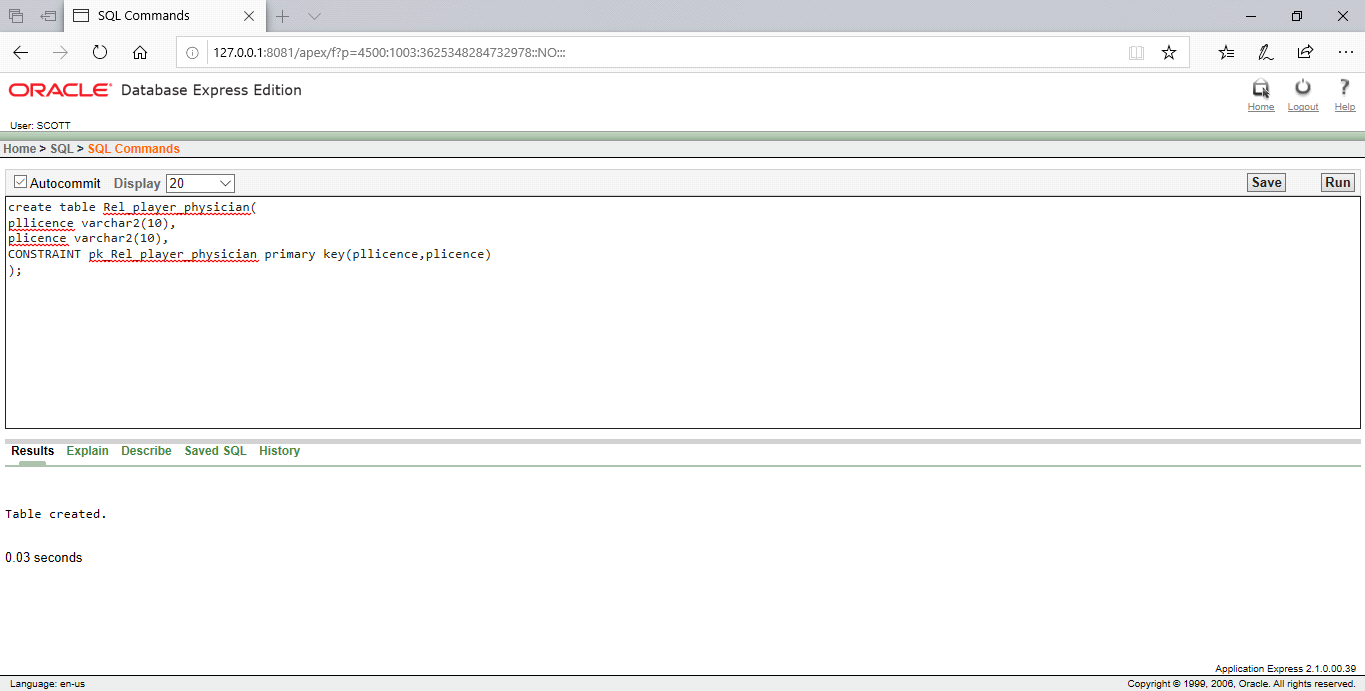
**Physician**



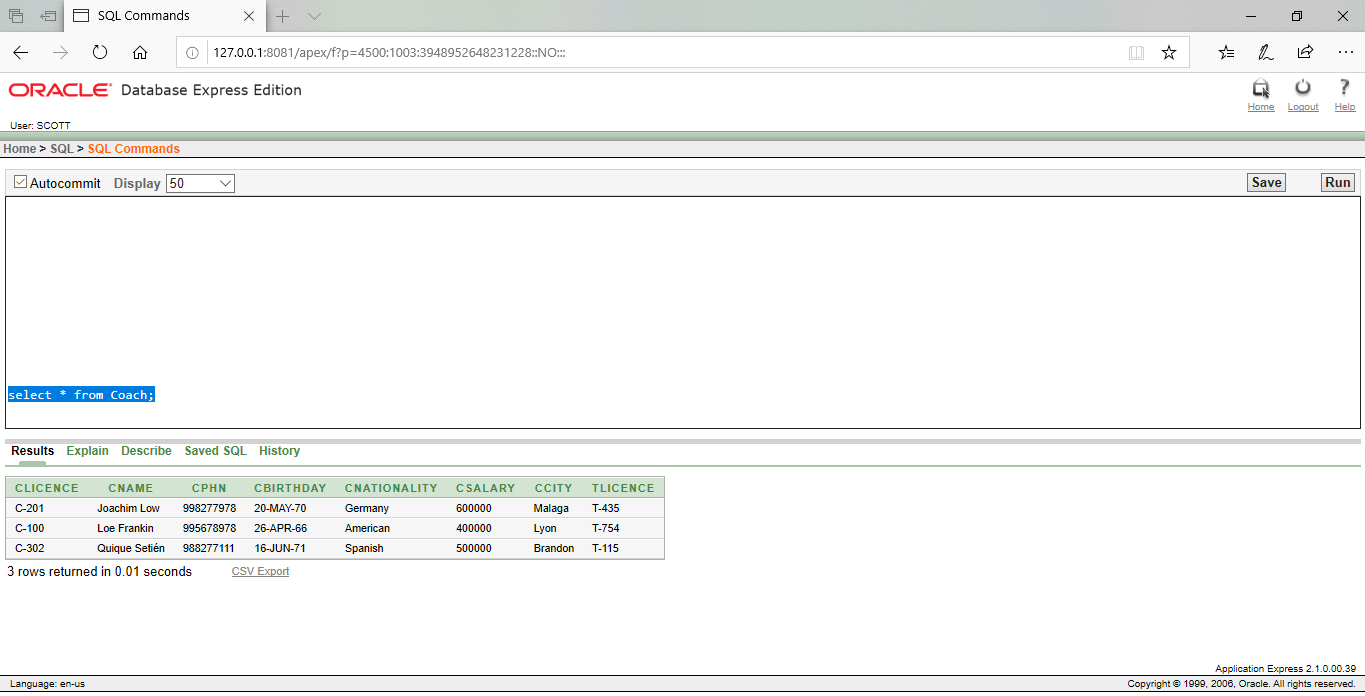
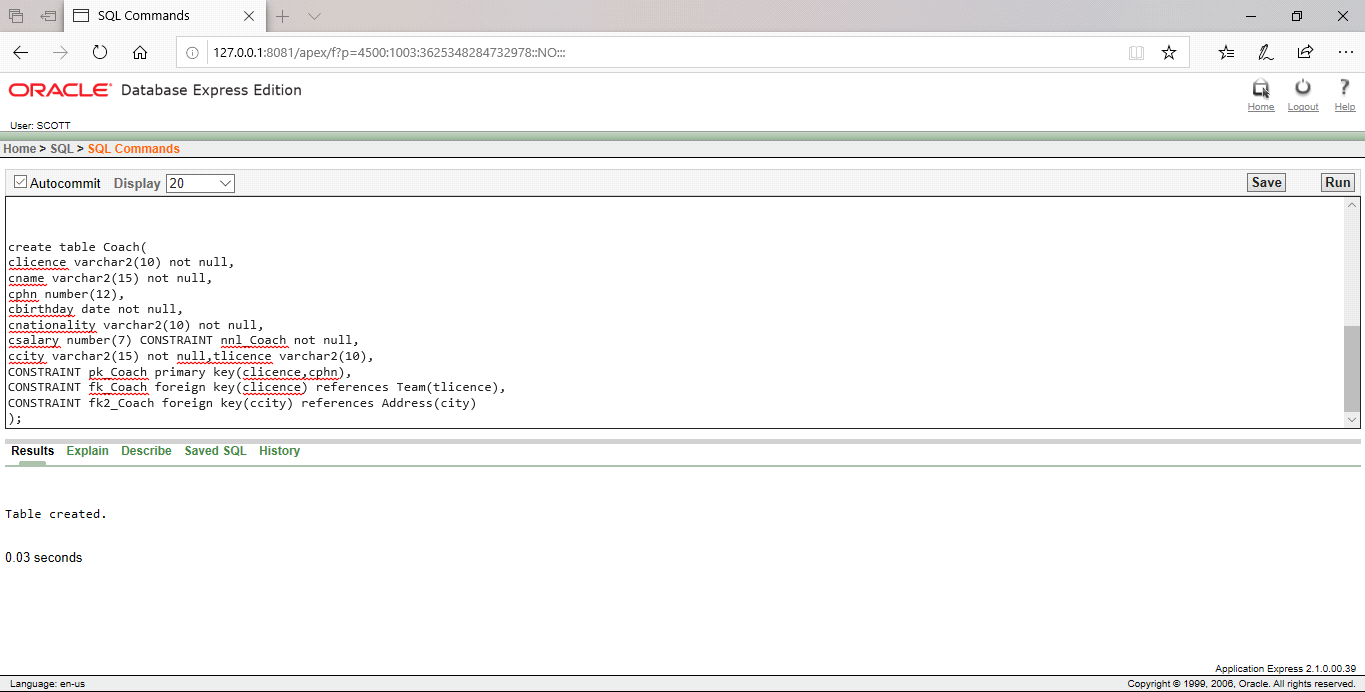
**Physician\_skill**



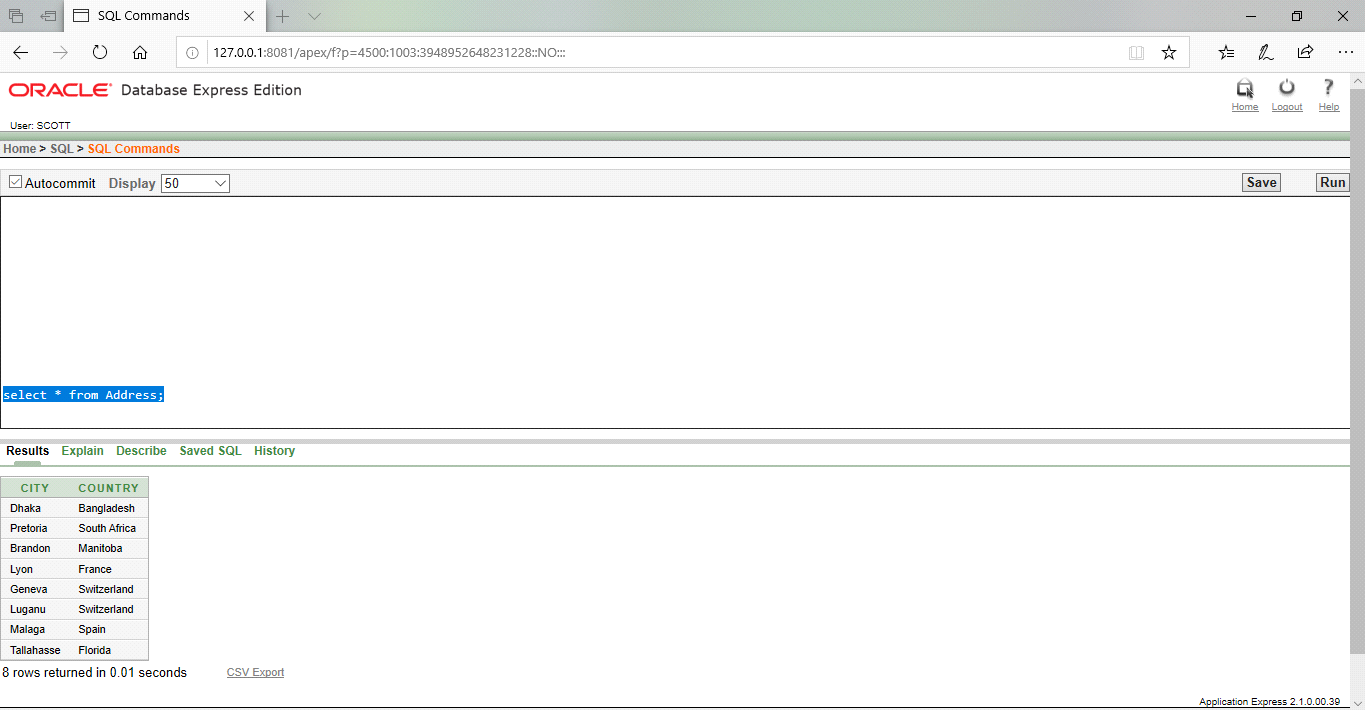
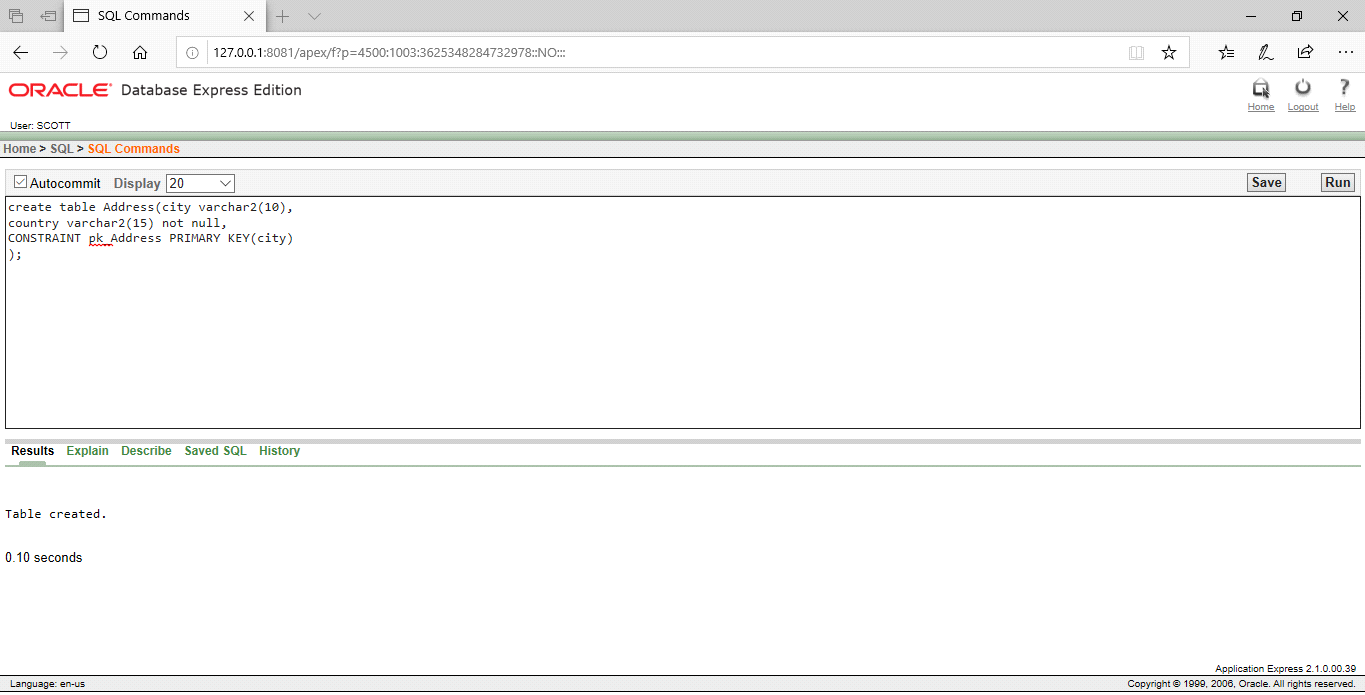
**Rel\_player\_ physician**



**Coach**

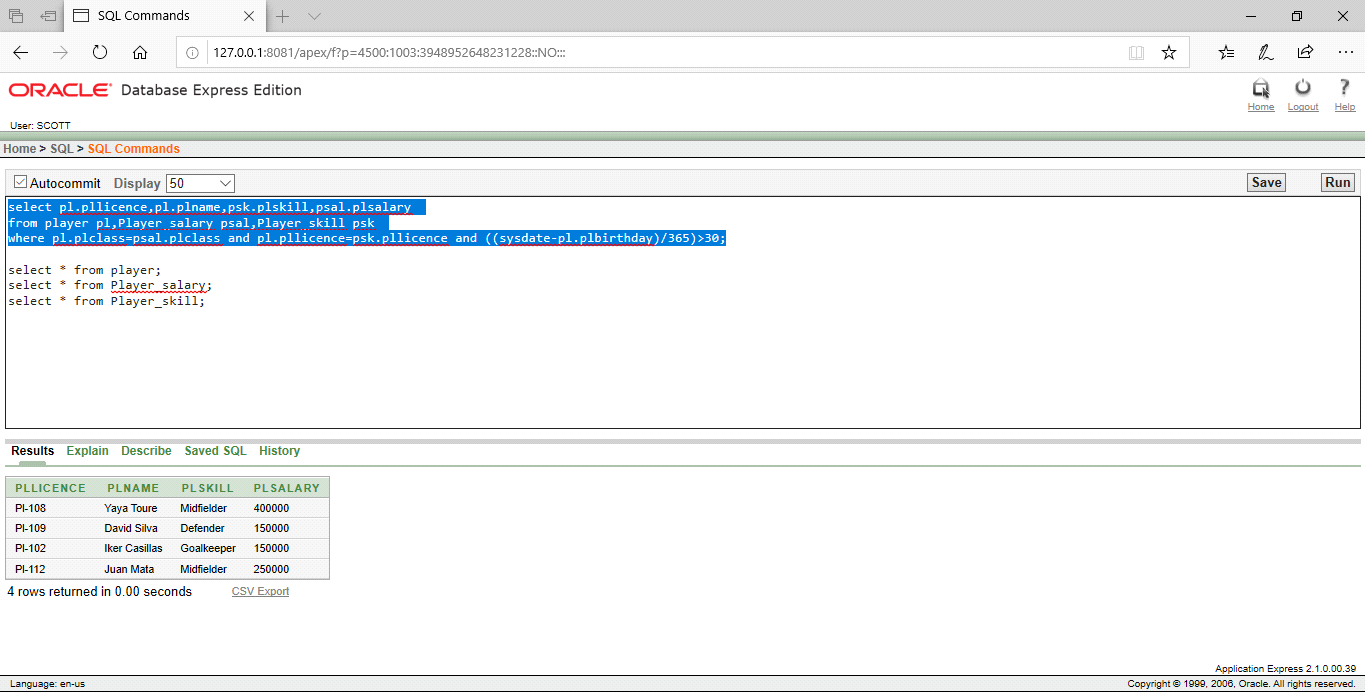


**Address**

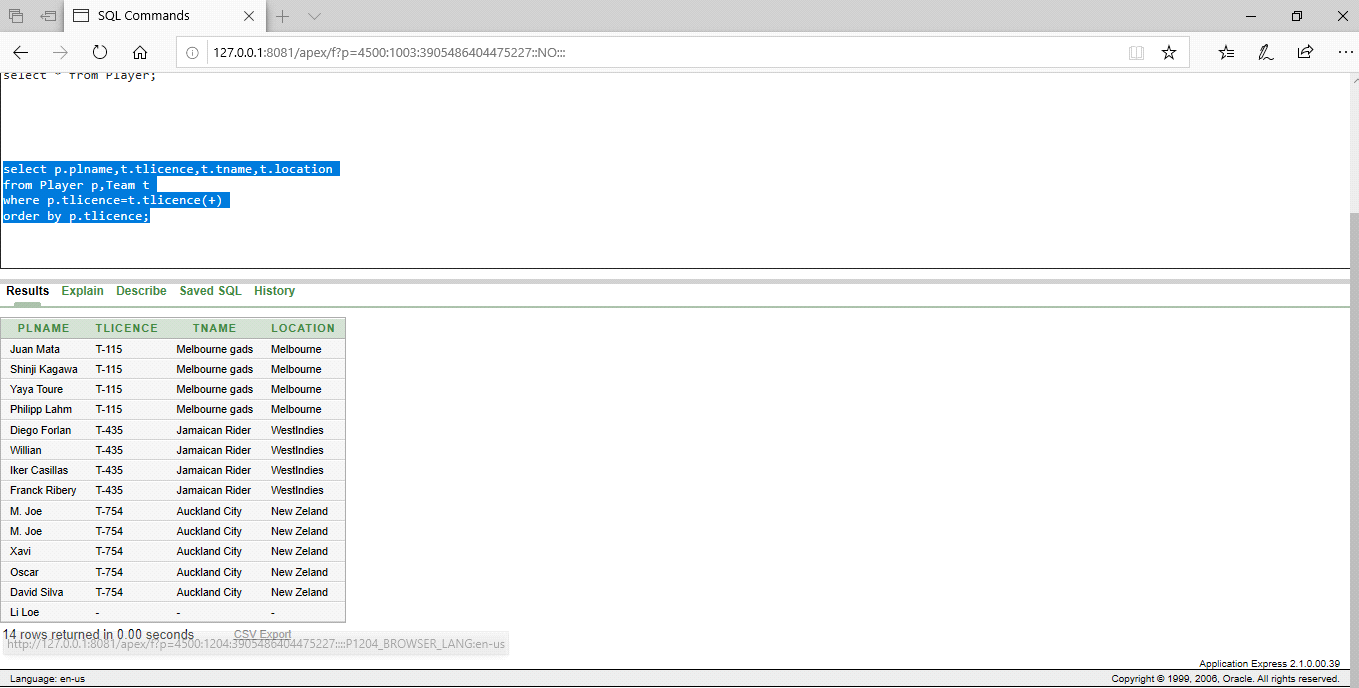


**Query question & Answer**

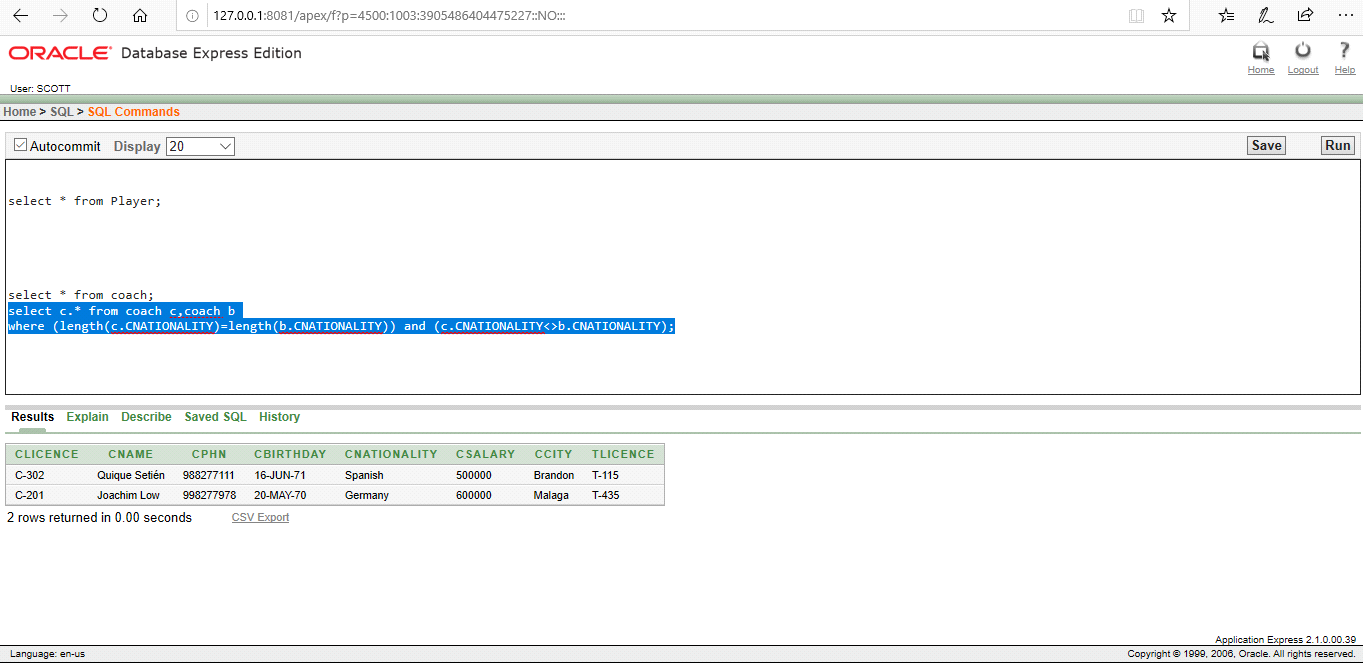
**1.**Display player licence,name,skill & salary where player age is more than 30. (Equijoin)



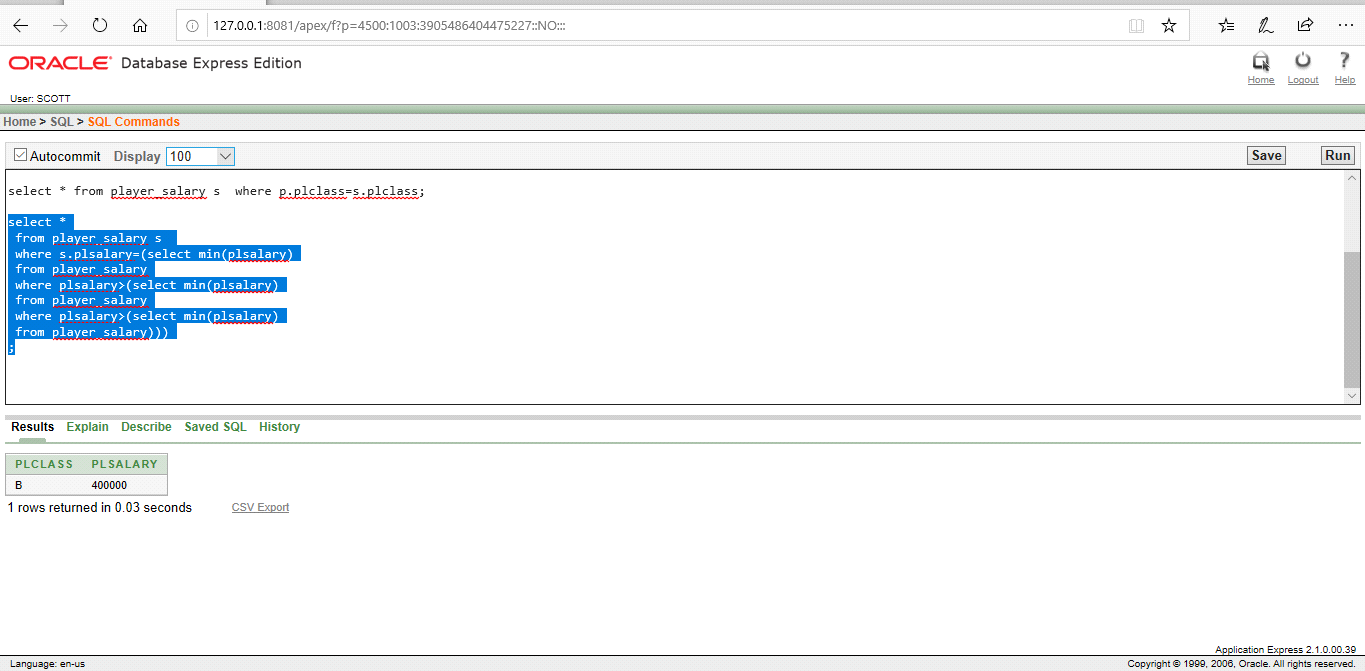
2. Display all player's licence,name and team information. (outer join)



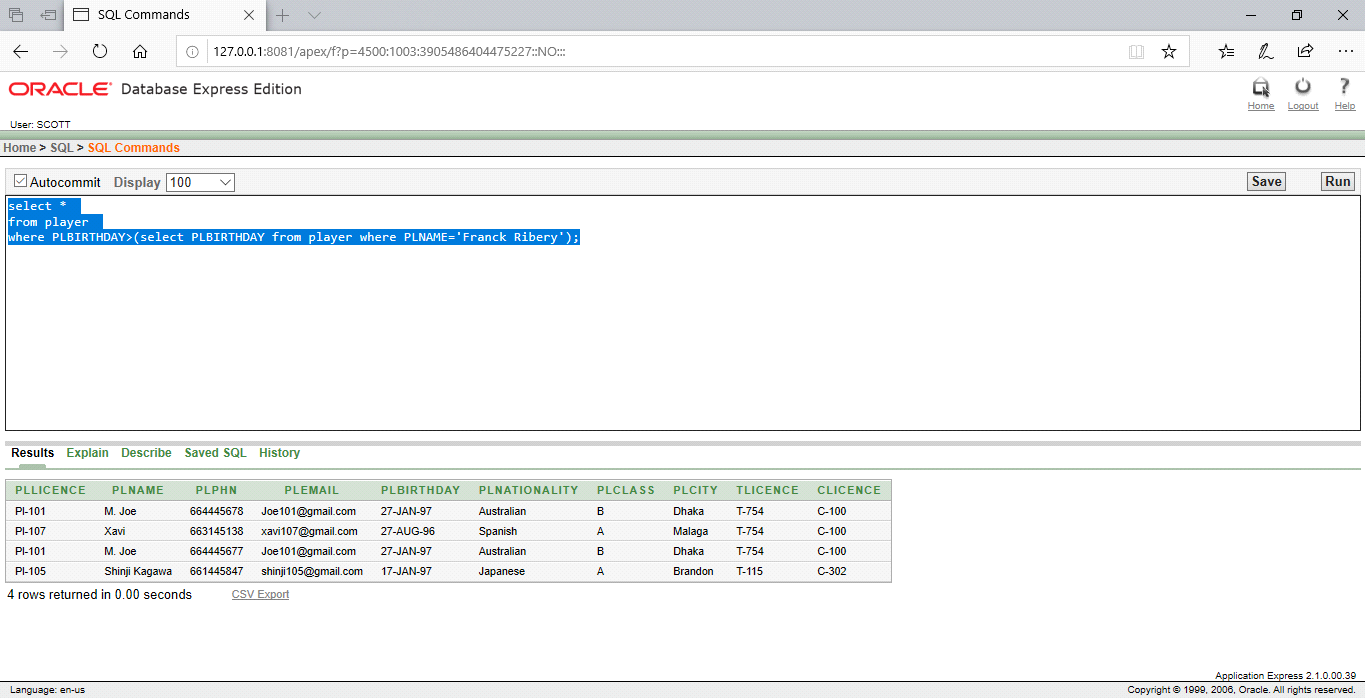
3.Display the coach information where their length of the word of their nationality is equal. (Self join)



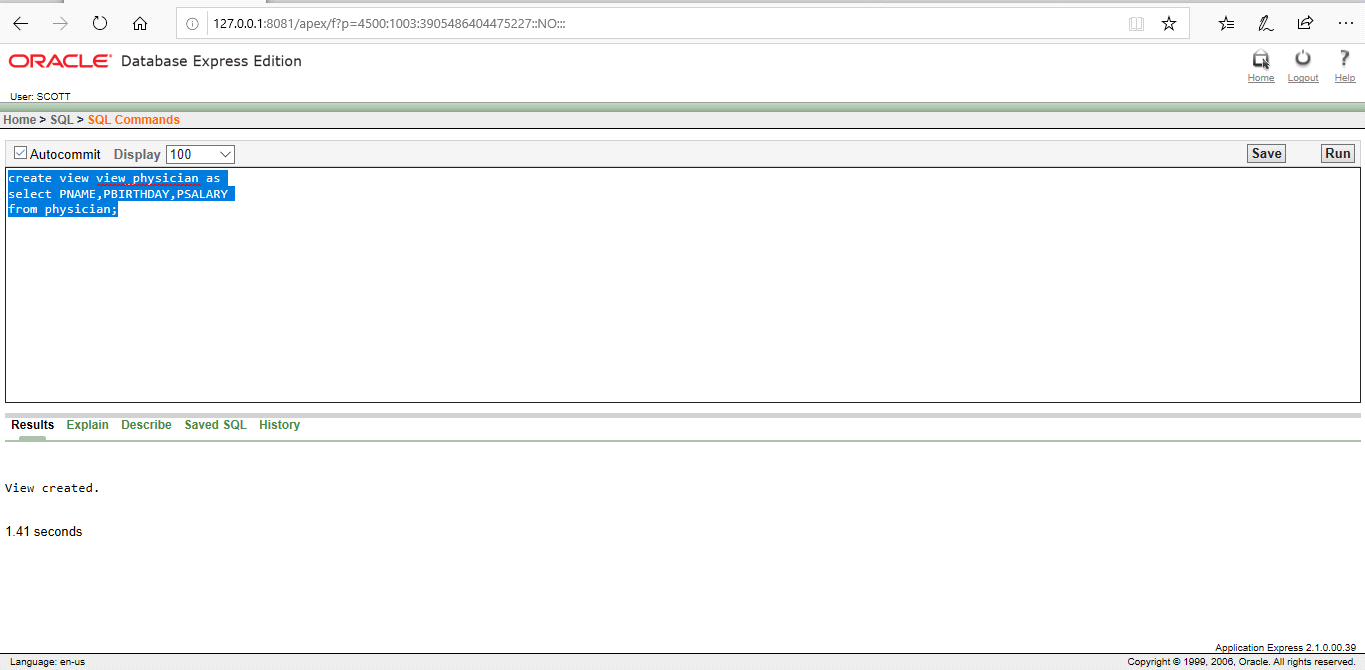
4.Find the third lowest salary and class name from Player’s salary table.



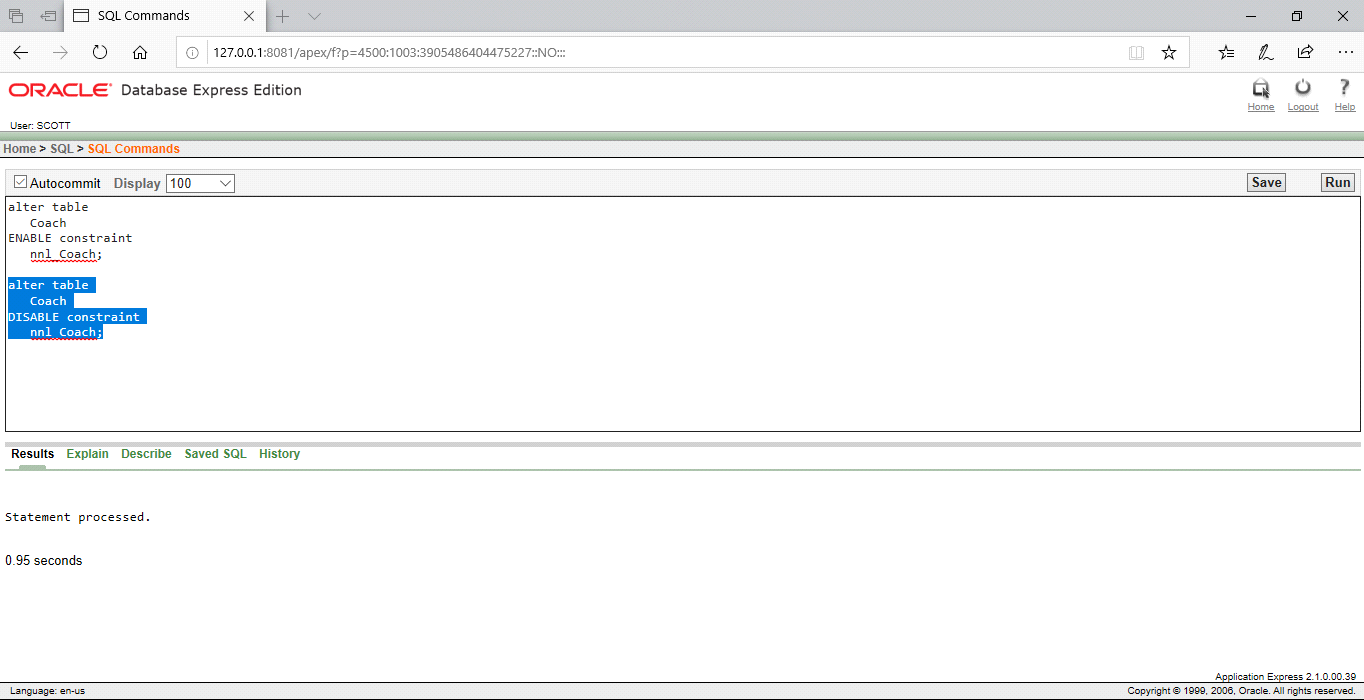
5.Find all of the players info, who are born after Franck Ribery.

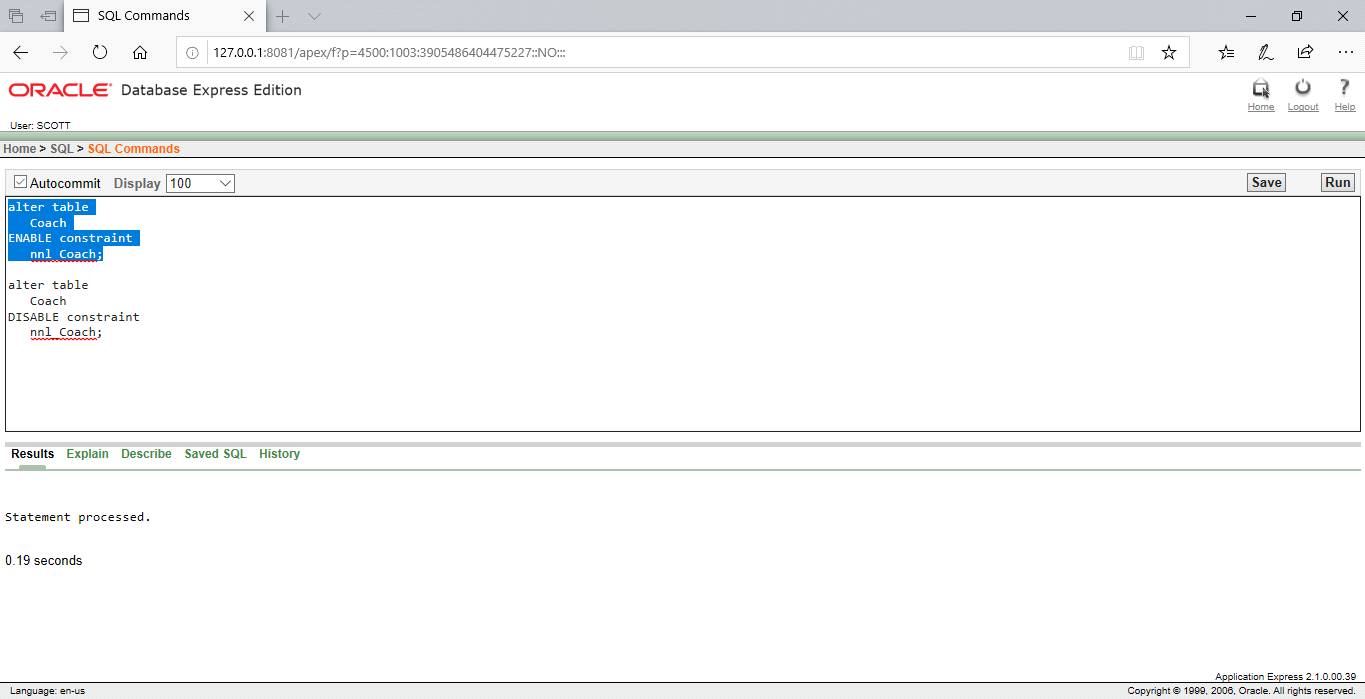


6.Create a view.(view\_physician)



7.Enable, disable constraints of table:





8.List the plname those are string with ‘X’ and with three characters:

∏Plname(σPlname like ‘X\_ \_ \_’(Player))

9.Display the coach name,salary and city from Coach table:

σcname,csalary,ccity(Coach)