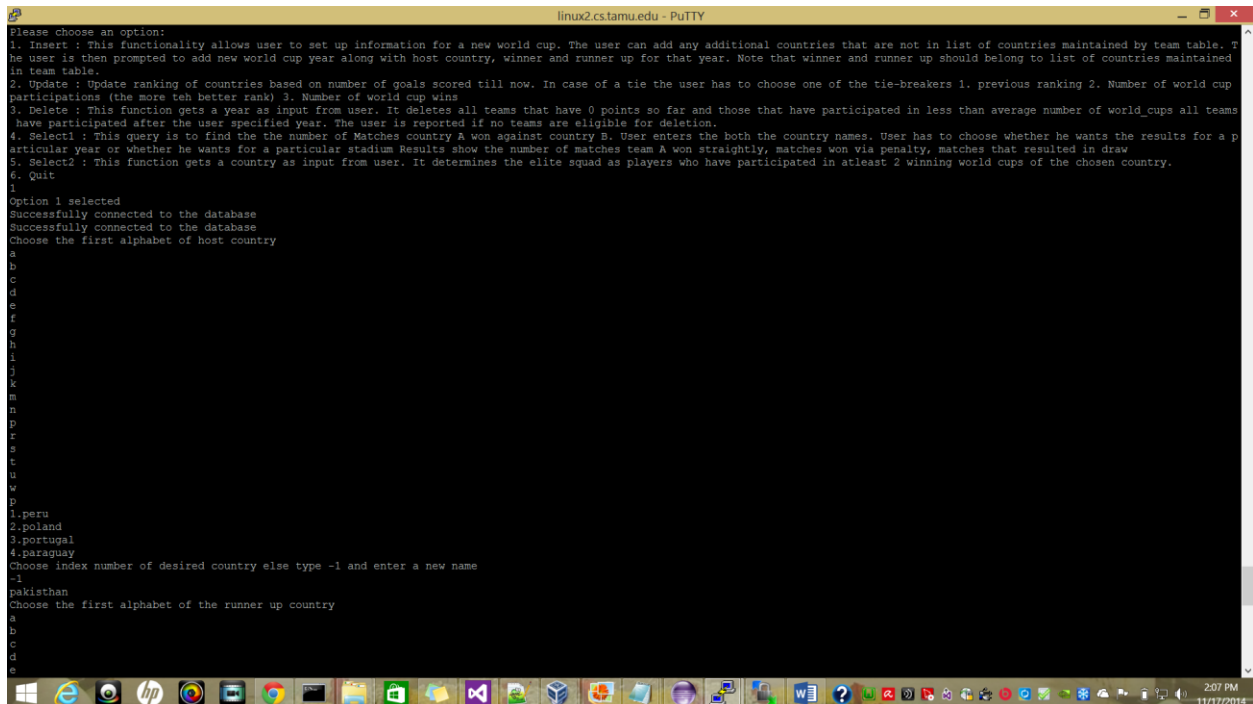


SCREENSHOTS

Sri Aditya Panda (UIN: 223003437)
Arjun Jayaraj Moothedath (UIN: 722008073)
Dakshina Ilangovan (UIN: 622009678)
Rajashree Rao Polsani (UIN: 223001584)

Insert (Option 1)



```
linux2.cs.tamu.edu - PuTTY
Please choose an option:
1. Insert : This functionality allows user to set up information for a new world cup. The user can add any additional countries that are not in list of countries maintained by team table. T
he user is then prompted to add new world cup year along with host country, winner and runner up for that year. Note that winner and runner up should belong to list of countries maintained
in team table.
2. Update : Update ranking of countries based on number of goals scored till now. In case of a tie the user has to choose one of the tie-breakers 1. previous ranking 2. Number of world cup
participations (the more teh better rank) 3. Number of world cup wins
3. Delete : This function gets a year as input from user. It deletes all teams that have 0 points so far and those that have participated in less than average number of world_cups all teams
have participated after the user specified year. The user is reported if no teams are eligible for deletion.
4. Select1 : This query is to find the the number of Matches country A won against country B. User enters the both the country names. User has to choose whether he wants the results for a p
articular year or whether he wants for a particular stadium Results show the number of matches team A won straightly, matches won vis penalty, matches that resulted in draw
5. Select2 : This function gets a country as input from user. It determines the elite squad as players who have participated in atleast 2 winning world cups of the chosen country.
6. Quit
1
Option 1 selected
Successfully connected to the database
Successfully connected to the database
Choose the first alphabet of host country
a
b
c
d
e
f
g
h
i
j
k
l
m
n
o
p
q
r
s
t
u
v
w
x
y
z
1.peru
2.poland
3.portugal
4.paraguay
Choose index number of desired country else type -1 and enter a new name
-1
pakistan
Choose the first alphabet of the runner up country
a
b
c
d
e
```

A new host country is added (Pakistan)

```
linux2.cs.tamu.edu - PuTTY
Choose the first alphabet of the runner up country
a
b
c
d
e
f
g
h
i
j
k
l
m
n
o
p
q
r
s
t
u
v
w
x
y
z
1.morocco
2.mexico
Choose index number of desired country else type -1 and enter a new name
-1
malaysia
Enter the association
asia
Enter the country code
MAL
Successfully connected to the database
Enter ranking
90
Enter points
0
Insert of runner up country successfully executed
Choose the first alphabet of the winning country
a
b
c
d
e
f
g
h
i
j
k
l
m
n
```

A new runner up country is added (Malaysia) into team table.

```
linux2.cs.tamu.edu - PuTTY
Enter ranking
90
Enter points
0
Insert of runner up country successfully executed
Choose the first alphabet of the winning country
a
b
c
d
e
f
g
h
i
j
k
l
m
n
o
p
q
r
s
t
u
v
w
x
y
z
1.belgium
2.bulgaria
3.bolivia
4.brazil
Choose index number of desired country else type -1 and enter a new name
4
Chosen country:brazil
Enter the year for which worldcup details are to be entered
2022
Insert into world cup successfully executed
Football Database
Please choose an option:
1. Insert : This functionality allows user to set up information for a new world cup. The user can add any additional countries that are not in list of countries maintained by team table. The user is then prompted to add new world cup year along with host country, winner and runner up for that year. Note that winner and runner up should belong to list of countries maintained in team table.
2. Update : Update ranking of countries based on number of goals scored till now. In case of a tie the user has to choose one of the tie-breakers 1. previous ranking 2. Number of world cup participations (the more teh Better rank) 3. Number of world cup wins
3. Delete : This function gets a year as input from user. It deletes all teams that have 0 points so far and those that have participated in less than average number of world_cups all teams have participated after the user specified year. The user is reported if no teams are eligible for deletion.
4. Select1 : This query is to find the the number of Matches country A won against country B. User enters the both the country names. User has to choose whether he wants the results for a particular year or whether he wants for a particular stadium Results show the number of matches team A won straightly, matches won via penalty, matches that resulted in draw
5. Select2 : This function gets a country as input from user. It determines the elite squad as players who have participated in atleast 2 winning world cups of the chosen country.
6. Quit
```

Brazil is already in the team table. In the end a new tuple is added to world cup table for the year 2022.

Update (Option 2)

```
linux2.cs.tamu.edu - PuTTY
u
w
y
b
1.belgium
2.bulgaria
3.bolivia
4.brazil
Choose index number of desired country else type -999 and enter a new name
4
Chosen country:brazil
Enter the year for which worldcup details are to be entered
2018
Insert into world cup successfully executed
Football Database
Please choose an option:
1. Insert : This functionality allows user to set up information for a new world cup. The user can add any additional countries that are not in list of countries maintained by team table. T
he user is then prompted to add new world cup year along with host country, winner and runner up for that year. Note that winner and runner up should belong to list of countries maintained
in team table.
2. Update : Update ranking of countries based on number of goals scored till now. In case of a tie the user has to choose one of the tie-breakers 1. previous ranking 2. Number of world cup
participations (the more teh better rank) 3. Number of world cup wins
3. Delete : This function gets a year as input from user. It deletes all teams that have 0 points so far and those that have participated in less than average number of world_cups all teams
have participated after the user specified year. The user is reported if no teams are eligible for deletion.
4. Select1 : This query is to find the the number of Matches country A won against country B. User enters the both the country names. User has to choose whether he wants the results for a p
articular year or whether he wants for a particular stadium Results show the number of matches team A won straightly, matches won via penalty, matches that resulted in draw
5. Select2 : This function gets a country as input from user. It determines the elite squad as players who have participated in atleast 2 winning world cups of the chosen country.
6. Quit
2
Option 2 selected

1. Previous ranking takes precedence
2. Teams with more participation in the World Cup takes precedence
3. Teams with more World Cup wins takes precedence
Enter your tiebreaker option: 3
Successfully updated
Football Database
Please choose an option:
1. Insert : This functionality allows user to set up information for a new world cup. The user can add any additional countries that are not in list of countries maintained by team table. T
he user is then prompted to add new world cup year along with host country, winner and runner up for that year. Note that winner and runner up should belong to list of countries maintained
in team table.
2. Update : Update ranking of countries based on number of goals scored till now. In case of a tie the user has to choose one of the tie-breakers 1. previous ranking 2. Number of world cup
participations (the more teh better rank) 3. Number of world cup wins
3. Delete : This function gets a year as input from user. It deletes all teams that have 0 points so far and those that have participated in less than average number of world_cups all teams
have participated after the user specified year. The user is reported if no teams are eligible for deletion.
4. Select1 : This query is to find the the number of Matches country A won against country B. User enters the both the country names. User has to choose whether he wants the results for a p
articular year or whether he wants for a particular stadium Results show the number of matches team A won straightly, matches won via penalty, matches that resulted in draw
5. Select2 : This function gets a country as input from user. It determines the elite squad as players who have participated in atleast 2 winning world cups of the chosen country.
6. Quit
2
Option 2 selected
```

The rankings in the team table are updated based on the number of goals scored. Here the teams with more number of world cup wins is chosen as the tie breaker.

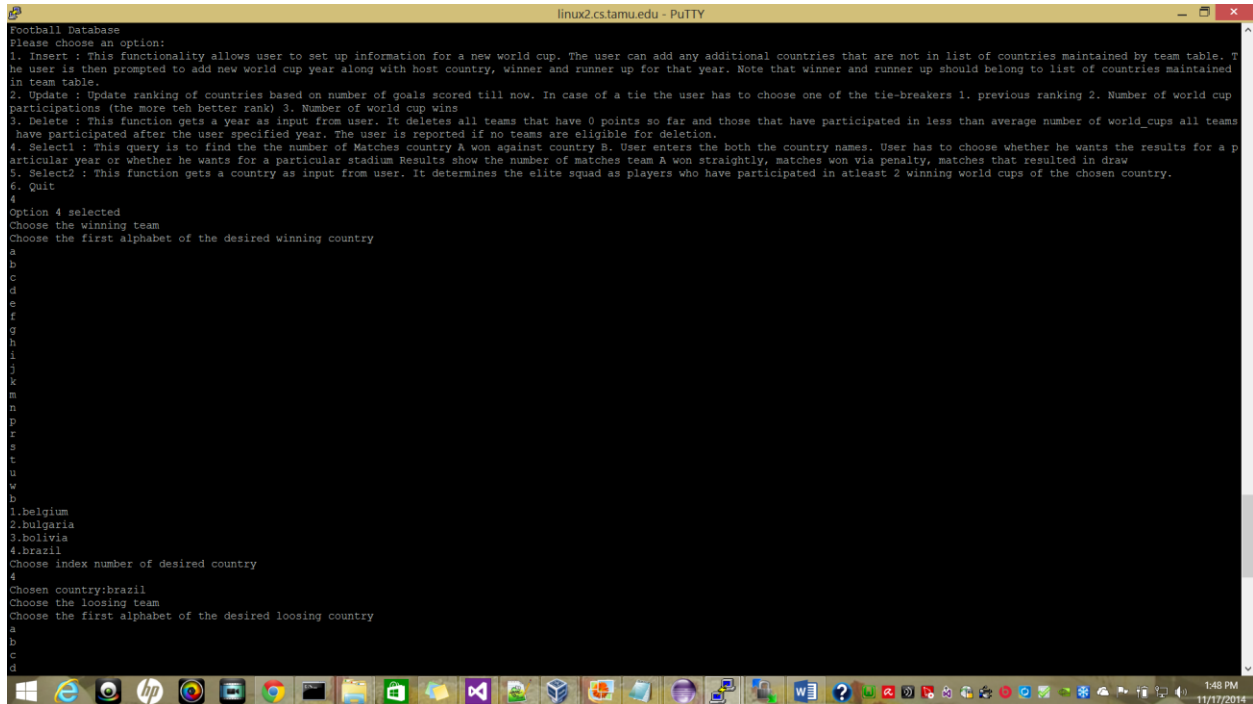
Delete (Option 3)

```
linux2.cs.tamu.edu - PuTTY
In team table.
2. Update : Update ranking of countries based on number of goals scored till now. In case of a tie the user has to choose one of the tie-breakers 1. previous ranking 2. Number of world cup
participations (the more teh better rank) 3. Number of world cup wins
3. Delete : This function gets a year as input from user. It deletes all teams that have 0 points so far and those that have participated in less than average number of world_cups all teams
have participated after the user specified year. The user is reported if no teams are eligible for deletion.
4. Select1 : This query is to find the the number of Matches country A won against country B. User enters the both the country names. User has to choose whether he wants the results for a p
articular year or whether he wants for a particular stadium Results show the number of matches team A won straightly, matches won via penalty, matches that resulted in draw
5. Select2 : This function gets a country as input from user. It determines the elite squad as players who have participated in atleast 2 winning world cups of the chosen country.
6. Quit
2
Option 2 selected

1. Previous ranking takes precedence
2. Teams with more participation in the World Cup takes precedence
3. Teams with more World Cup wins takes precedence
Enter your tiebreaker option: 3
Successfully updated
Football Database
Please choose an option:
1. Insert : This functionality allows user to set up information for a new world cup. The user can add any additional countries that are not in list of countries maintained by team table. T
he user is then prompted to add new world cup year along with host country, winner and runner up for that year. Note that winner and runner up should belong to list of countries maintained
in team table.
2. Update : Update ranking of countries based on number of goals scored till now. In case of a tie the user has to choose one of the tie-breakers 1. previous ranking 2. Number of world cup
participations (the more teh better rank) 3. Number of world cup wins
3. Delete : This function gets a year as input from user. It deletes all teams that have 0 points so far and those that have participated in less than average number of world_cups all teams
have participated after the user specified year. The user is reported if no teams are eligible for deletion.
4. Select1 : This query is to find the the number of Matches country A won against country B. User enters the both the country names. User has to choose whether he wants the results for a p
articular year or whether he wants for a particular stadium Results show the number of matches team A won straightly, matches won via penalty, matches that resulted in draw
5. Select2 : This function gets a country as input from user. It determines the elite squad as players who have participated in atleast 2 winning world cups of the chosen country.
6. Quit
3
Option 3 selected
Enter the year beyond which you want participations to be considered. Please restrict between 1930 and 2018
1950
3 Teams with points 0 that had below average participation after 1950 have been deleted.
Football Database
Please choose an option:
1. Insert : This functionality allows user to set up information for a new world cup. The user can add any additional countries that are not in list of countries maintained by team table. T
he user is then prompted to add new world cup year along with host country, winner and runner up for that year. Note that winner and runner up should belong to list of countries maintained
in team table.
2. Update : Update ranking of countries based on number of goals scored till now. In case of a tie the user has to choose one of the tie-breakers 1. previous ranking 2. Number of world cup
participations (the more teh better rank) 3. Number of world cup wins
3. Delete : This function gets a year as input from user. It deletes all teams that have 0 points so far and those that have participated in less than average number of world_cups all teams
have participated after the user specified year. The user is reported if no teams are eligible for deletion.
4. Select1 : This query is to find the the number of Matches country A won against country B. User enters the both the country names. User has to choose whether he wants the results for a p
articular year or whether he wants for a particular stadium Results show the number of matches team A won straightly, matches won via penalty, matches that resulted in draw
5. Select2 : This function gets a country as input from user. It determines the elite squad as players who have participated in atleast 2 winning world cups of the chosen country.
6. Quit
3
```

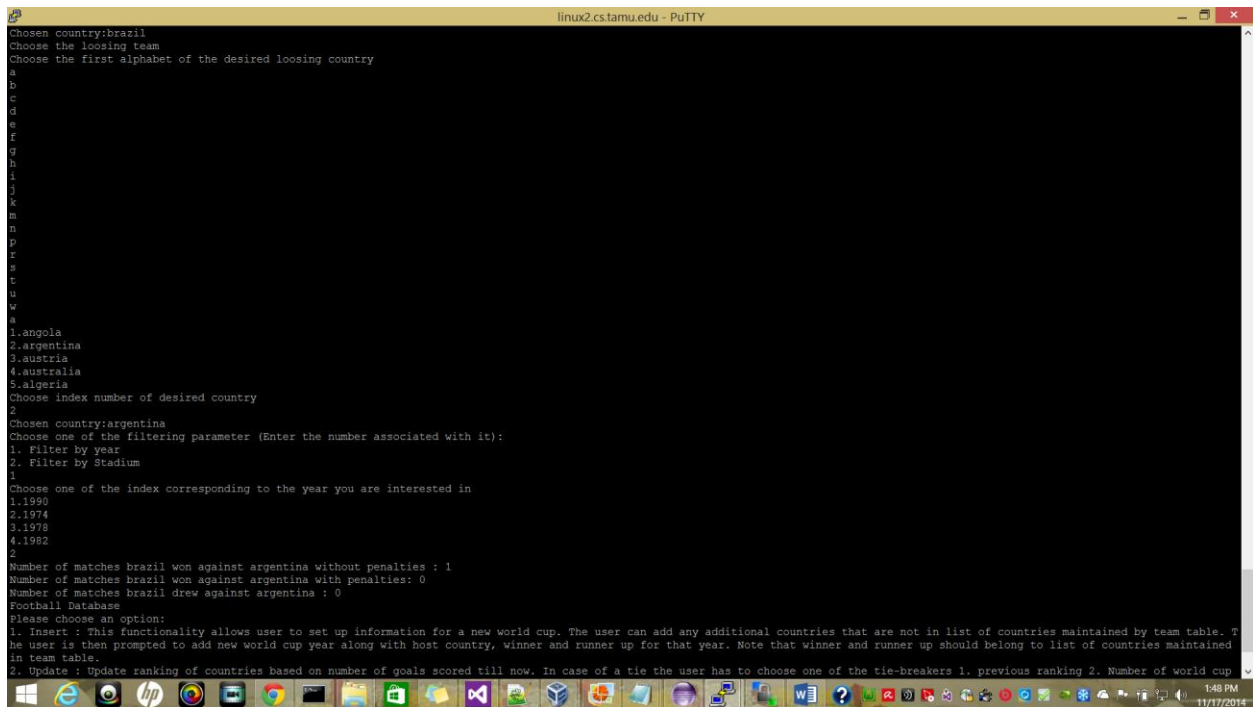
The user can choose to delete all team data of teams(countries) that have 0 Points in the database. Conditionally the user must provide start year to consider only those teams that have participated in less than average number of participations that year. User chose 1950 and 3 teams have been deleted.

Select 1 (Option 4)



```
Football Database
Please choose an option:
1. Insert : This functionality allows user to set up information for a new world cup. The user can add any additional countries that are not in list of countries maintained by team table. The user is then prompted to add new world cup year along with host country, winner and runner up for that year. Note that winner and runner up should belong to list of countries maintained in team table.
2. Update : Update ranking of countries based on number of goals scored till now. In case of a tie the user has to choose one of the tie-breakers 1. previous ranking 2. Number of world cup participations (the more teh better rank) 3. Number of world cup wins
3. Delete : This function gets a year as input from user. It deletes all teams that have 0 points so far and those that have participated in less than average number of world_cups all teams have participated after the user specified year. The user is reported if no teams are eligible for deletion.
4. Select1 : This query is to find the the number of Matches country A won against country B. User enters the both the country names. User has to choose whether he wants the results for a particular year or whether he wants for a particular stadium Results show the number of matches team A won straightly, matches won via penalty, matches that resulted in draw
5. Select2 : This function gets a country as input from user. It determines the elite squad as players who have participated in atleast 2 winning world cups of the chosen country.
6. Quit
4
Option 4 selected
Choose the winning team
Choose the first alphabet of the desired winning country
a
b
c
d
e
f
g
h
i
j
k
l
m
n
o
p
q
r
s
t
u
v
w
x
y
z
1.belgium
2.bulgaria
3.bolivia
4.brazil
Choose index number of desired country
4
Chosen country:brazil
Choose the loosing team
Choose the first alphabet of the desired loosing country
a
b
c
d
e
f
g
h
i
j
k
l
m
n
o
p
q
r
s
t
u
v
w
x
y
z
1.angola
2.argentina
3.austria
4.australia
5.algeria
Choose index number of desired country
2
Chosen country:argentina
Choose one of the filtering parameter (Enter the number associated with it):
1. Filter by year
2. Filter by Stadium
1
Choose one of the index corresponding to the year you are interested in
1.1990
2.1974
3.1978
4.1982
2
Number of matches brazil won against argentina without penalties : 1
Number of matches brazil won against argentina with penalties: 0
Number of matches brazil drew against argentina : 0
Football Database
Please choose an option:
1. Insert : This functionality allows user to set up information for a new world cup. The user can add any additional countries that are not in list of countries maintained by team table. The user is then prompted to add new world cup year along with host country, winner and runner up for that year. Note that winner and runner up should belong to list of countries maintained in team table.
2. Update : Update ranking of countries based on number of goals scored till now. In case of a tie the user has to choose one of the tie-breakers 1. previous ranking 2. Number of world cup participations (the more teh better rank) 3. Number of world cup wins
3. Delete : This function gets a year as input from user. It deletes all teams that have 0 points so far and those that have participated in less than average number of world_cups all teams have participated after the user specified year. The user is reported if no teams are eligible for deletion.
4. Select1 : This query is to find the the number of Matches country A won against country B. User enters the both the country names. User has to choose whether he wants the results for a particular year or whether he wants for a particular stadium Results show the number of matches team A won straightly, matches won via penalty, matches that resulted in draw
5. Select2 : This function gets a country as input from user. It determines the elite squad as players who have participated in atleast 2 winning world cups of the chosen country.
6. Quit
```

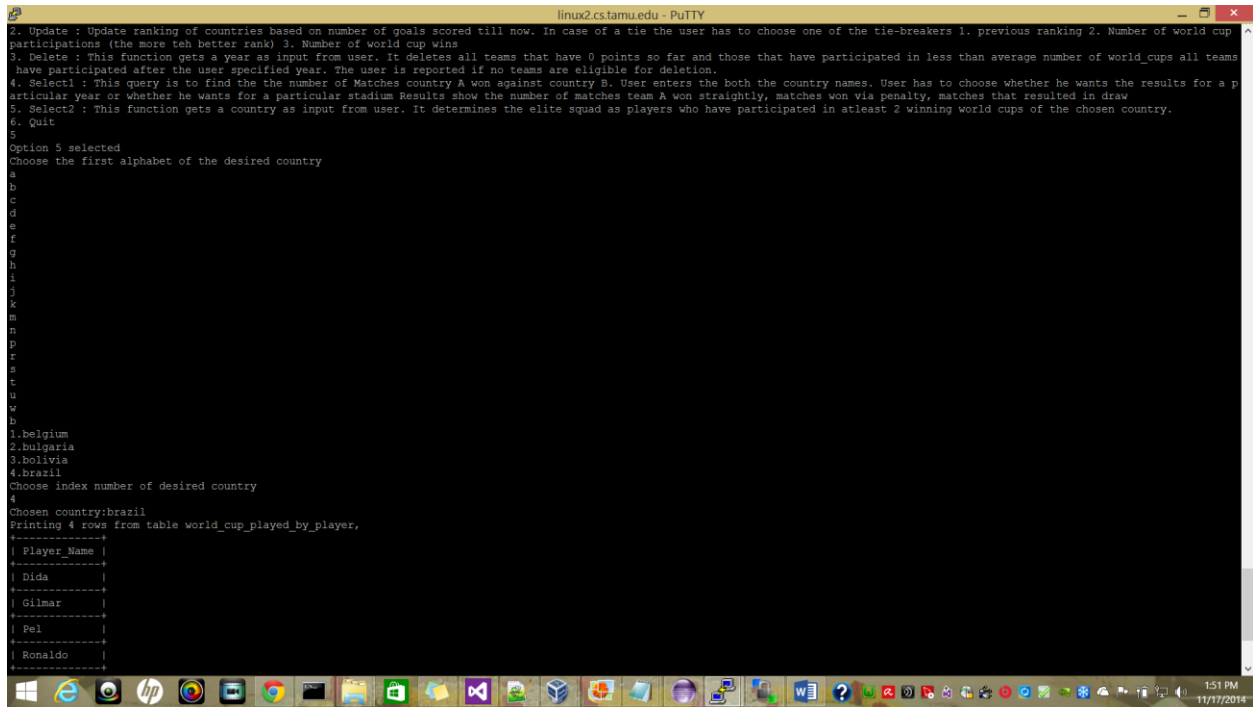
Here country A is chosen (Brazil)



```
Football Database
Please choose an option:
1. Insert : This functionality allows user to set up information for a new world cup. The user can add any additional countries that are not in list of countries maintained by team table. The user is then prompted to add new world cup year along with host country, winner and runner up for that year. Note that winner and runner up should belong to list of countries maintained in team table.
2. Update : Update ranking of countries based on number of goals scored till now. In case of a tie the user has to choose one of the tie-breakers 1. previous ranking 2. Number of world cup participations (the more teh better rank) 3. Number of world cup wins
3. Delete : This function gets a year as input from user. It deletes all teams that have 0 points so far and those that have participated in less than average number of world_cups all teams have participated after the user specified year. The user is reported if no teams are eligible for deletion.
4. Select1 : This query is to find the the number of Matches country A won against country B. User enters the both the country names. User has to choose whether he wants the results for a particular year or whether he wants for a particular stadium Results show the number of matches team A won straightly, matches won via penalty, matches that resulted in draw
5. Select2 : This function gets a country as input from user. It determines the elite squad as players who have participated in atleast 2 winning world cups of the chosen country.
6. Quit
```

Here country B is chosen (Argentina). Finally the number of matches brazil won against Argentina in different categories is displayed for the year 1974 chosen by user

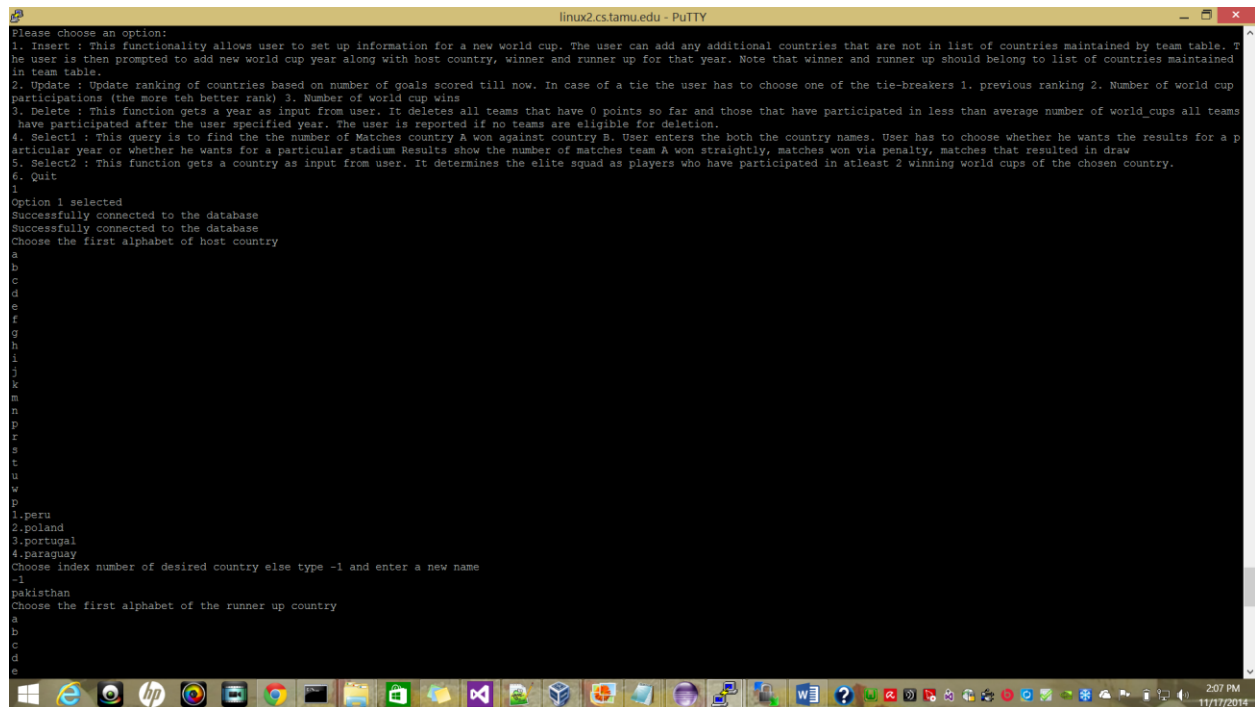
Select 2 (Option 5)



```
linux2.cs.tamu.edu - PuTTY
2. Update : Update ranking of countries based on number of goals scored till now. In case of a tie the user has to choose one of the tie-breakers 1. previous ranking 2. Number of world cup
participations (the more teh better rank) 3. Number of world cup wins
3. Delete : This function gets a year as input from user. It deletes all teams that have 0 points so far and those that have participated in less than average number of world_cups all teams
have participated after the user specified year. The user is reported if no teams are eligible for deletion.
4. Select1 : This query is to find the the number of Matches country A won against country B. User enters the both the country names. User has to choose whether he wants the results for a p
articular year or whether he wants for a particular stadium Results show the number of matches team A won straightly, matches won via penalty, matches that resulted in draw
5. Select2 : This function gets a country as input from user. It determines the elite squad as players who have participated in atleast 2 winning world cups of the chosen country.
6. Quit
5
Option 5 selected
Choose the first alphabet of the desired country
a
b
c
d
e
f
g
h
i
j
k
l
m
n
o
p
q
r
s
t
u
v
w
x
y
z
1.belgium
2.bulgaria
3.bolivia
4.brazil
Choose index number of desired country
4
Chosen country:brazil
Printing 4 rows from table world_cup_played_by_player.
+-----+
| Player_Name |
+-----+
| Dida        |
+-----+
| Gilmar      |
+-----+
| Pel         |
+-----+
| Ronaldo     |
+-----+
```

The user chooses brazil via alphabetical listing and alphabetical index presented to him. We select elite players from brazil as players who have participated in at least 2 world cups that brazil won. Here 4 players are identified.

Database connection



The screenshot shows a PuTTY terminal window titled 'linux2.cs.tamu.edu - PuTTY'. The terminal displays a menu of options for a database application. Option 1 is selected, leading to a successful database connection. The user is then prompted to choose the first alphabet of the host country, with a list of letters from 'a' to 'p'. The user enters '1', which corresponds to 'peru'. The terminal then prompts for the runner up country, with a list of letters from 'a' to 'e'. The user enters '-1', which corresponds to 'pakistan'.

```
linux2.cs.tamu.edu - PuTTY
Please choose an option:
1. Insert : This functionality allows user to set up information for a new world cup. The user can add any additional countries that are not in list of countries maintained by team table. T
he user is then prompted to add new world cup year along with host country, winner and runner up for that year. Note that winner and runner up should belong to list of countries maintained
in team table.
2. Update : Update ranking of countries based on number of goals scored till now. In case of a tie the user has to choose one of the tie-breakers 1. previous ranking 2. Number of world cup
participations (the more teh better rank) 3. Number of world cup wins
3. Delete : This function gets a year as input from user. It deletes all teams that have 0 points so far and those that have participated in less than average number of world_cups all teams
have participated after the user specified year. The user is reported if no teams are eligible for deletion.
4. Select1 : This query is to find the che number of Matches country A won against country B. User enters the both the country names. User has to choose whether he wants the results for a p
articular year or whether he wants for a particular stadium Results show the number of matches team A won straightly, matches won via penalty, matches that resulted in draw
5. Select2 : This function gets a country as input from user. It determines the elite squad as players who have participated in atleast 2 winning world cups of the chosen country.
6. Quit
1
Option 1 selected
Successfully connected to the database
Successfully connected to the database
Choose the first alphabet of host country
a
b
c
d
e
f
g
h
i
j
k
l
m
n
o
p
1.peru
2.poland
3.portugal
4.paraguay
Choose index number of desired country else type -1 and enter a new name
-1
pakistan
Choose the first alphabet of the runner up country
a
b
c
d
e
```

Successful connection with the database is indicated by 'Successfully connected to the database'