

****NOTE: Professor said it was okay if i consolidated some of these screenshots, you will notice on the before and afters that they are only two, however it shows the functionality****

The root user execution script for Project Three - CNT 4714 - Spring 2024

all commands assumed to be executed by the root user. Root user has all permissions on all databases

Note which database is used for each command.

#

Command 1 - project3:

Query: Which rider won World Cup Cyclocross - Elite Women in 2024?

select ridername

from racewinners

where racename = 'World Cup Cyclocross - Elite Women' and raceyear = 2024;

The screenshot shows a MySQL command-line interface window. On the left, there are fields for 'User Properties' (root.properties), 'DB Properties' (project3.properties), 'Username' (root), and 'Password' (masked with dots). Below these are buttons for 'Disconnect', 'Connect to Database', 'Clear SQL Command', and 'Execute SQL Command'. The 'Connect to Database' button is highlighted in blue. The status bar at the bottom of the left pane shows 'Connected to jdbc:mysql://localhost:3306/project3?useTimezone=true&serverTimezone=UTC'. The main area on the right is titled 'Enter an SQL Command' and contains the query: 'select ridername from racewinners where racename = 'World Cup Cyclocross - Elite Women' and raceyear = 2024;'. Below the query input are buttons for 'Clear SQL Command' and 'Execute SQL Command'. The 'Execute SQL Command' button is highlighted in green. The bottom section is titled 'SQL Execution Result Window' and displays a table with one row: 'Ceylin del Carmen Alvarado' under the column 'ridername'. A 'Clear Result Window' button is located at the bottom left of the result window.

ridername
Ceylin del Carmen Alvarado

Command 2 - project3:

Query: List the teams that ride Colnago bikes.

select teamname

from teams

where bikename = "Colnago";

User Properties

root.properties

DB Properties

project3.properties

Username

root

Password

....

Disconnect

Clear SQL Command

Execute SQL Command

Connect to Database

Connected to jdbc:mysql://localhost:3306/project3?useTimezone=true&serverTimezone=UTC

Enter an SQL Command

```
select teamname
from teams
where bikename = "Colnago";
```

SQL Execution Result Window

teamname
Landbouwkredit
Molteni
UAE

Clear Result Window

Command 3 - project3:

Query: List the name of every race won by a rider who has more than 50 professional wins.

select distinct racename

from racewinners

where ridername in (select ridername

from riders

where num_pro_wins > 50);

User Properties

root.properties

DB Properties

project3.properties

Username

root

Password

....

Disconnect

Clear SQL Command

Execute SQL Command

Connect to Database

Connected to jdbc:mysql://localhost:3306/project3?useTimezone=true&serverTimezone=UTC

Enter an SQL Command

```
select distinct racename
from racewinners
where ridername in (select ridername
from riders
where num_pro_wins > 50);
```

SQL Execution Result Window

racename
Amstel Gold
Fleche Wallone - Feminine
GP-E3
Liege-Bastogne-Liege
Paris-Roubaix
Rund de Flandren
Super Prestige - Dienem
Telnet Super Prestige
World Championship - Elite Women
World Cup CycloCross - Elite Women
World Cyclocross Championships - Elite Women

Clear Result Window

Command 4 - project3:

Query: List the names of all the riders on the same team as the winner of the 2010 Paris-Roubaix race.

select ridername

from riders

where teamname = (select teamname

from riders

where ridername = (select ridername

from racewinners

where racename = 'Paris-Roubaix' and raceyear = 2010

)

);

The screenshot shows a MySQL command-line interface with the following components:

- User Properties:** root.properties
- DB Properties:** project3.properties
- Username:** root
- Password:** ****
- Enter an SQL Command:** A text area containing the SQL query:

```
select ridername
from riders
where teamname = (select teamname
                  from riders
                  where ridername = (select ridername
                                     from racewinners
                                     where racename = 'Paris-Roubaix' and raceyear = 2010
                                     )
);
```
- Buttons:** Disconnect (red), Clear SQL Command (yellow), Execute SQL Command (green), Connect to Database (blue).
- Status Bar:** Connected to jdbc:mysql://localhost:3306/project3?useTimezone=true&serverTimezone=UTC
- SQL Execution Result Window:** A table with the following data:

ridername
Fabian Cancellara
Jens Voigt
Niki Sorensen
Thor Hushovd
- Clear Result Window:** A yellow button at the bottom left.

Commanda 5A, 5B, and 5C - All project3: (I combined this into two screenshots, the second screenshot runs the insert and shows the select, id have to reset db to fix)

Insert the rider Mark Renshaw into the riders table.

* * Do a "before" and "after" selection on the riders table

select * from riders;

insert into riders values ('Mark Renshaw','HTC-Columbia','Australia',26, 'M');

select * from riders;

5A

The screenshot shows a MySQL command-line interface. On the left, there are fields for 'User Properties' (root.properties), 'DB Properties' (project3.properties), 'Username' (root), and 'Password' (masked with dots). Below these are buttons for 'Disconnect', 'Clear SQL Command', and 'Execute SQL Command'. A status bar at the bottom indicates 'Connected to jdbc:mysql://localhost:3306/project3?useTimezone=true&serverTimezone=UTC'. The main area displays the SQL command 'select * from riders' and its result in a table format.

ridername	teamname	nationality	num_pro_wins	gender
Alberto Contador	Astana	Spain	21	M
Alesandro Ballan	Lampre	Italy	21	M
Andy Schleck	Leopard-Trek	Luxembourg	35	M
Bradley Wiggins	Ti-Raleigh	Great Britain	13	M
Ceylin del Carmen Alvarado	Alpecin-Fenix	Netherlands	88	F
Chris Froome	Sky	Great Britain	23	M
Davide van der Poel	Jumbo-Visma	Alpecin	0	M
Dietrich Thurau	Ti-Raleigh	Germany	78	M
Elisa Balsamo	Trek-Segafredo	Italy	20	F
Elisa Borghini	Schenger	Italy	34	F
Fabian Cancellara	SaxoBank	Switzerland	58	M
Fedor den Hertog	Acqua & Sapone	Netherlands	20	M

Below the table is a 'Clear Result Window' button.

5B, 5C

The screenshot shows a MySQL command-line interface. On the left, there are fields for 'User Properties' (root.properties), 'DB Properties' (project3.properties), 'Username' (root), and 'Password' (masked with dots). Below these are buttons for 'Disconnect', 'Connect to Database', 'Clear SQL Command', and 'Execute SQL Command'. The 'Connect to Database' button is highlighted in blue, and a status bar below it shows 'Connected to jdbc:mysql://localhost:3306/project3?useTimezone=true&serverTimezone=UTC'. On the right, there is a text area for 'Enter an SQL Command' containing the command: 'insert into riders values ('Mark Renshaw','HTC-Columbia','Australia',26, 'M'); select * from riders;'. Below the text area are buttons for 'Clear SQL Command' and 'Execute SQL Command'. At the bottom, there is a table titled 'SQL Execution Result Window' showing the results of the 'select * from riders;' command. The table has columns: ridername, teamname, nationality, num_pro_wins, and gender. The data is as follows:

ridername	teamname	nationality	num_pro_wins	gender
Jens Voigt	SaxoBank	Germany	38	M
Johan Museeuw	Quick-Step	Belgium	120	M
Lizzie Armistead	Boels-Dolmans	Great Britain	89	F
Marianne Vos	WM3	Netherlands	230	F
Mario Cipolini	Acqua & Sapone	Italy	130	M
Mark Cavendish	HTC-Columbia	Isle of Man	34	M
Mark Renshaw	HTC-Columbia	Australia	26	M
Mathieu van der Poel	Alpecin	Netherlands	34	M
Matti Breschel	Cofidis	Denmark	12	M
Miguel Indurain	BMC	Spain	76	M
Nicolas Roche	Cofidis	Ireland	8	M
Niki Sorensen	SaxoBank	Norway	32	M

At the bottom of the window, there is a 'Clear Result Window' button.

Command 6 - project3:

List the names of those riders who have won Paris-Roubaix at least two times.

select ridername

from racewinners

where racename = 'Paris-Roubaix'

group by ridername

having count(ridername) >= 2;

User Properties: root.properties

DB Properties: project3.properties

Username: root

Password: ****

Disconnect

Connect to Database

Connected to jdbc:mysql://localhost:3306/project3?useTimezone=true&serverTimezone=UTC

Clear SQL Command

Execute SQL Command

Enter an SQL Command

```
select ridername
from racewinners
where racename = 'Paris-Roubaix'
group by ridername
having count(ridername) >= 2;
```

SQL Execution Result Window

ridername
Eddy Merckx
Roger de Vlaeminck
Fabian Cancellara

Clear Result Window

```
# Commands 7A, 7B, and 7C - All project3:
# Delete all the riders from Belgium from the riders table.
# * * * Do a "before" and "after" select * from riders for this command.
select * from riders;
delete from riders where nationality = 'Belgium';
select * from riders;
```

7A

The screenshot shows a SQL client window with the following components:

- User Properties:** root.properties
- DB Properties:** project3.properties
- Username:** root
- Password:** ****
- Buttons:** Disconnect (red), Clear SQL Command (yellow), Execute SQL Command (green), Connect to Database (blue).
- Status Bar:** Connected to jdbc:mysql://localhost:3306/project3?useTimezone=true&serverTimezone=UTC
- SQL Execution Result Window:**

ridername	teamname	nationality	num_pro_wins	gender
Pauline Ferrand	Gitane	France	45	F
Peter Post	Ti-Raleigh	Netherlands	150	M
Peter Sagan	Bora-Hansgrohe	Slovakia	101	M
Phillipe Gilbert	BMC	Belgium	85	M
Robbie McKewen	Brooklyn	Australia	55	M
Roger de Vlaeminck	Brooklyn	Belgium	134	M
Stuart OGrady	CSC	Australia	20	M
Sven Nys	Landbouwkredit	Belgium	94	M
Thor Hushovd	SaxoBank	Norway	29	M
Tom Boonen	Quick-Step	Belgium	67	M
Wout van Aert	Jumbo-Visma	Belgium	60	M
Zednek Stybar	Quick-Step	Czechoslovakia	40	M
- Clear Result Window:** (yellow button)

7B,7C

The screenshot shows the same SQL client window as in 7A, but with the following changes:

- SQL Command:** delete from riders where nationality = 'Belgium'; select * from riders
- SQL Execution Result Window:**

ridername	teamname	nationality	num_pro_wins	gender
Mathieu van der Poel	Alpecin	Netherlands	34	M
Matti Breschel	Cofidis	Denmark	12	M
Miguel Indurain	BMC	Spain	76	M
Nicolas Roche	Cofidis	Ireland	8	M
Niki Sorensen	SaxoBank	Norway	32	M
Pauline Ferrand	Gitane	France	45	F
Peter Post	Ti-Raleigh	Netherlands	150	M
Peter Sagan	Bora-Hansgrohe	Slovakia	101	M
Robbie McKewen	Brooklyn	Australia	55	M
Stuart OGrady	CSC	Australia	20	M
Thor Hushovd	SaxoBank	Norway	29	M
Zednek Stybar	Quick-Step	Czechoslovakia	40	M
- Clear Result Window:** (yellow button)

Commands 8A, 8B, and 8C - All project3:

Update rider Mark Renshaw to show number of wins = 30 in the riders table.

* Do a "before" and "after" selection on the riders table

select * from riders;

update riders set num_pro_wins = 30 where ridername = "Mark Renshaw";

select * from riders;

8A

The screenshot shows a database management tool interface. On the left, there are fields for 'User Properties' (root.properties), 'DB Properties' (project3.properties), 'Username' (root), and 'Password' (masked with ****). Below these are buttons for 'Disconnect', 'Connect to Database', 'Clear SQL Command', and 'Execute SQL Command'. A status bar at the bottom indicates 'Connected to jdbc:mysql://localhost:3306/project3?useTimeZone=true&serverTimeZone=UTC'. The main area is titled 'Enter an SQL Command' and contains the text 'select * from riders'. Below this is a table titled 'SQL Execution Result Window' with the following data:

ridername	teamname	nationality	num_pro_wins	gender
Filippo Ganna	Ineos	Italy	25	M
Frank Schleck	Leopard-Trek	Luxembourg	28	M
George Hincapie	BMC	USA	22	M
Jens Voigt	SaxoBank	Germany	38	M
Lizzie Armistead	Boels-Dolmans	Great Britain	89	F
Marianne Vos	WM3	Netherlands	230	F
Mario Cipolini	Acqua & Sapone	Italy	130	M
Mark Cavendish	HTC-Columbia	Isle of Man	34	M
Mark Renshaw	HTC-Columbia	Australia	26	M
Mathieu van der Poel	Alpecin	Netherlands	34	M
Matti Breschel	Cofidis	Denmark	12	M
Miguel Indurain	BMC	Spain	76	M

At the bottom of the table is a 'Clear Result Window' button.

8B,8C

The screenshot shows the same database management tool interface as before, but with the SQL command 'update riders set num_pro_wins = 30 where ridername = "Mark Renshaw";' entered in the 'Enter an SQL Command' field. The status bar still shows 'Connected to jdbc:mysql://localhost:3306/project3?useTimeZone=true&serverTimeZone=UTC'. The 'SQL Execution Result Window' table is the same as in the previous screenshot, but the 'num_pro_wins' for Mark Renshaw has been updated to 30.

ridername	teamname	nationality	num_pro_wins	gender
Filippo Ganna	Ineos	Italy	25	M
Frank Schleck	Leopard-Trek	Luxembourg	28	M
George Hincapie	BMC	USA	22	M
Jens Voigt	SaxoBank	Germany	38	M
Lizzie Armistead	Boels-Dolmans	Great Britain	89	F
Marianne Vos	WM3	Netherlands	230	F
Mario Cipolini	Acqua & Sapone	Italy	130	M
Mark Cavendish	HTC-Columbia	Isle of Man	34	M
Mark Renshaw	HTC-Columbia	Australia	30	M
Mathieu van der Poel	Alpecin	Netherlands	34	M
Matti Breschel	Cofidis	Denmark	12	M
Miguel Indurain	BMC	Spain	76	M

The 'Clear Result Window' button is still present at the bottom.

Command 9 - bikedb:
This command is malformed and will not execute
select *
from bikes
where country_of_orign = "Italy";



Commands 10A and 10B - All project3:

update rider Ceylin del Carmen Alvarado to show number of wins = 89 in the riders table.

then query the riders table to list all riders with exactyl 89 wins.

update riders set num_pro_wins = 89 where ridername = 'Ceylin del Carmen Alvarado';

select ridername, num_pro_wins from riders where num_pro_wins = 89;

10A AND 10B

User Properties: root.properties
DB Properties: project3.properties
Username: root
Password: ****

Enter an SQL Command

```
update riders set num_pro_wins = 89 where ridername = 'Ceylin del Carmen Alvarado';  
select ridername, num_pro_wins from riders where num_pro_wins = 89;
```

Disconnect Clear SQL Command Execute SQL Command

Connect to Database Connected to jdbc:mysql://localhost:3306/project3?useTimezone=true&serverTimezone=UTC

SQL Execution Result Window

ridername	num_pro_wins
Ceylin del Carmen Alvarado	89
Lizzie Armistead	89

Clear Result Window