

All 17 screenshots from the execution of the commands specified in the **project3rootuserscript.sql** script:

RootCommand 1:

The screenshot shows the SQL Client APP interface. The title bar reads "SQL Client APP - (MJL - CNT 4714 - Spring 2023)". The "Connection Details" section on the left includes a "Properties File" dropdown set to "root.properties", a "Username" field with "root", and a "Password" field with masked characters. The "Enter An SQL Command" text area contains the query: `select ridername
from racewinners
where racename = 'World Cyclocross Championships - Elite
Women' and raceyear = 2020;`. Below the text area are buttons for "Connect to Database", "Clear SQL Command", and "Execute SQL Command". A status bar indicates a successful connection: **CONNECTED TO: jdbc:mysql://localhost:3306/project3?useTimezone=True&serverTimezone=UTC.** The "SQL Execution Result Window" displays a table with one row:

ridername
Ceylin del Carmen Alvarado

. A "Clear Result Window" button is at the bottom.

RootCommand 2:

The screenshot shows the SQL Client APP interface. The title bar reads "SQL Client APP - (MJL - CNT 4714 - Spring 2023)". The "Connection Details" section on the left includes a "Properties File" dropdown set to "root.properties", a "Username" field with "root", and a "Password" field with masked characters. The "Enter An SQL Command" text area contains the query: `select teamname
from teams
where bikename = "Colnago";`. Below the text area are buttons for "Connect to Database", "Clear SQL Command", and "Execute SQL Command". A status bar indicates a successful connection: **CONNECTED TO: jdbc:mysql://localhost:3306/project3?useTimezone=True&serverTimezone=UTC.** The "SQL Execution Result Window" displays a table with three rows:

teamname
Landbouwkredit
Molteni
UAE

. A "Clear Result Window" button is at the bottom.

RootCommand 3:

SQL Client APP – (MJL – CNT 4714 – Spring 2023)

Connection Details

Properties File

root.properties

Username

root

Password

.....

Enter An SQL Command

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

Connect to Database

Clear SQL Command

Execute SQL Command

CONNECTED TO: jdbc:mysql://localhost:3306/project3?useTimezone=True&serverTimezone=UTC.

SQL Execution Result Window

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

Clear Result Window

RootCommand 4:

SQL Client APP – (MJL – CNT 4714 – Spring 2023)

Connection Details

Properties File

root.properties

Username

root

Password

.....

Enter An SQL Command

```
select ridername
from riders
where teamname = (select teamname
                 from riders
                 where ridername = (select ridername
                                    from racewinners
                                    where racename = 'Paris-Roubaix' and
```

Connect to Database

Clear SQL Command

Execute SQL Command

CONNECTED TO: jdbc:mysql://localhost:3306/project3?useTimezone=True&serverTimezone=UTC.

SQL Execution Result Window

ridername
Fabian Cancellara
Jens Voigt
Niki Sorensen
Thor Hushovd

Clear Result Window

RootCommand 5A:

SQL Client APP – (MJL – CNT 4714 – Spring 2023)

Connection Details

Properties File:

Username:

Password:

Enter An SQL Command

CONNECTED TO: jdbc:mysql://localhost:3306/project3?useTimezone=True&serverTimezone=UTC.

SQL Execution Result Window

ridername	teamname	nationality	num_pro_wins	gender
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
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

(Mark Renshaw does not exist before)

RootCommand 5B:

SQL Client APP – (MJL – CNT 4714 – Spring 2023)

Connection Details

Properties File:

Username:

Password:

Enter An SQL Command

CONNECTED TO: jdbc:mysql://localhost:3306/project3?useTimezone=True&serverTimezone=UTC.

SQL Execution Result Window

RootCommand 5C:

SQL Client APP – (MJL – CNT 4714 – Spring 2023)

Connection Details

Properties File:

Username:

Password:

Enter An SQL Command

CONNECTED TO: jdbc:mysql://localhost:3306/project3?useTimezone=True&serverTimezone=UTC.

SQL Execution Result Window

ridername	teamname	nationality	num_pro_wins	gender
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
Pauline Ferrand	Gitane	France	45	F

(Mark Renshaw shows in result window)

RootCommand 6:

SQL Client APP – (MJL – CNT 4714 – Spring 2023)

Connection Details

Properties File:

Username:

Password:

Enter An SQL Command

CONNECTED TO: jdbc:mysql://localhost:3306/project3?useTimezone=True&serverTimezone=UTC.

SQL Execution Result Window

ridername
Eddy Merckx
Roger deVlaeminck
Fabian Cancellara

RootCommands 7A:

SQL Client APP – (MJL – CNT 4714 – Spring 2023)

Connection Details

Properties File:

Username:

Password:

Enter An SQL Command

CONNECTED TO: jdbc:mysql://localhost:3306/project3?useTimezone=True&serverTimezone=UTC.

SQL Execution Result Window

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
Nico Peeters	Cofidis	Ireland	2	M

(Belgium riders are contained)

RootCommands 7B;

SQL Client APP – (MJL – CNT 4714 – Spring 2023)

Connection Details

Properties File:

Username:

Password:

Enter An SQL Command

CONNECTED TO: jdbc:mysql://localhost:3306/project3?useTimezone=True&serverTimezone=UTC.

SQL Execution Result Window

RootCommands 7C:

SQL Client APP – (MJL – CNT 4714 – Spring 2023)

Connection Details

Properties File:

Username:

Password:

Enter An SQL Command

CONNECTED TO: jdbc:mysql://localhost:3306/project3?useTimezone=True&serverTimezone=UTC.

SQL Execution Result Window

ridername	teamname	nationality	num_pro_wins	gender
Fedor den Hertog	Acqua & Sapone	Netherlands	20	M
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

(Belgium riders are deleted)

RootCommands 8A:

SQL Client APP – (MJL – CNT 4714 – Spring 2023)

Connection Details

Properties File:

Username:

Password:

Enter An SQL Command

CONNECTED TO: jdbc:mysql://localhost:3306/project3?useTimezone=True&serverTimezone=UTC.

SQL Execution Result Window

ridername	teamname	nationality	num_pro_wins	gender
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
Pauline Ferrand	Gitane	France	45	F
Peter Dink	T-Mobile	Netherlands	150	M

(Mark Renshaw has 26 num_pro_wins)

RootCommands 8B:

SQL Client APP – (MJL – CNT 4714 – Spring 2023)

Connection Details

Properties File:

Username:

Password:

Enter An SQL Command

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

CONNECTED TO: jdbc:mysql://localhost:3306/project3?useTimezone=True&serverTimezone=UTC.

SQL Execution Result Window

RootCommands 8C:

SQL Client APP – (MJL – CNT 4714 – Spring 2023)

Connection Details

Properties File:

Username:

Password:

Enter An SQL Command

select * from riders;

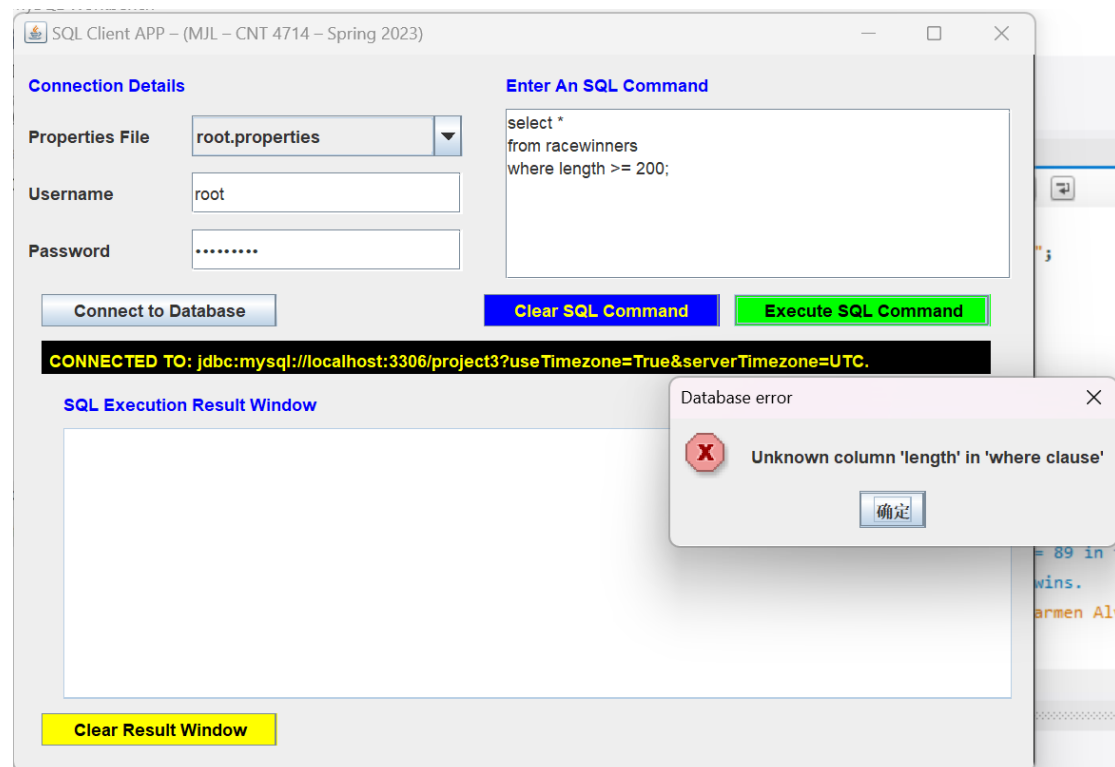
CONNECTED TO: jdbc:mysql://localhost:3306/project3?useTimezone=True&serverTimezone=UTC.

SQL Execution Result Window

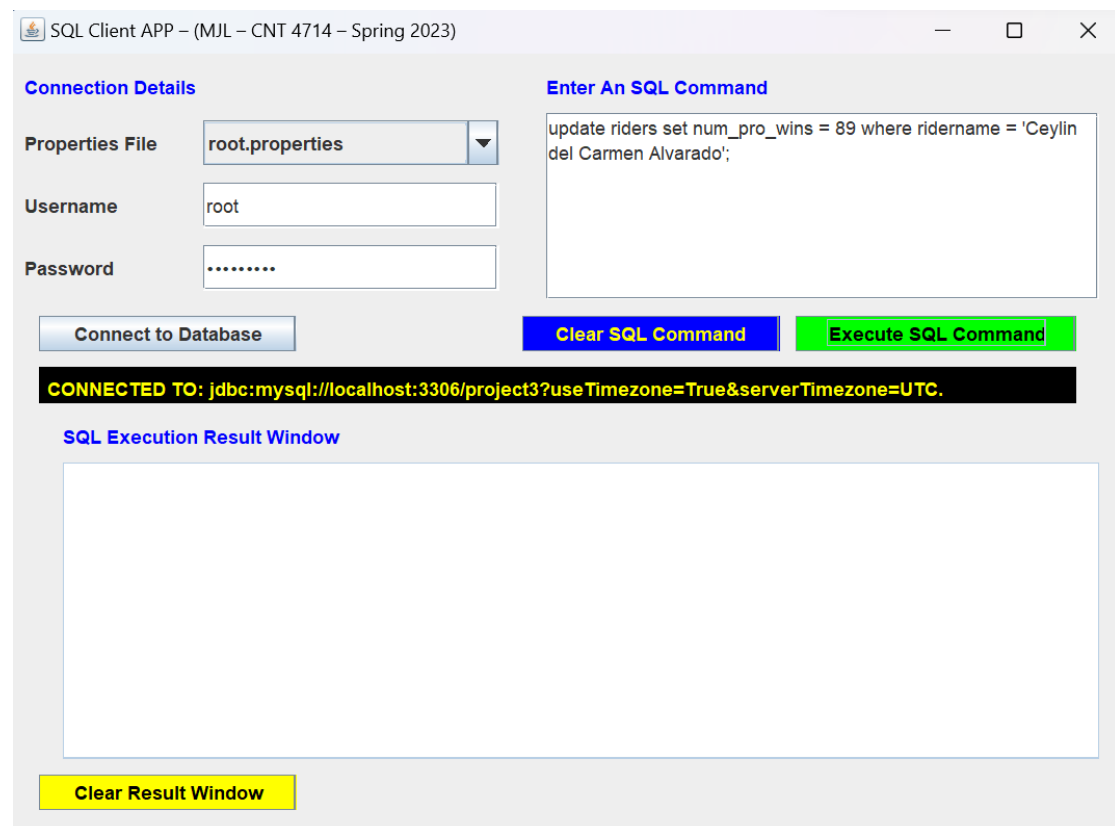
ridername	teamname	nationality	num_pro_wins	gender
Marianne Vos	WM3	Netherlands	230	F
Mario Cipolini	Acqua & Sapone	Italy	130	M
Mark Cavendish	HTC-Columbia	Isle of Man	34	M
Mark Renshaw	HTC-Columbia	Australia	30	M
Mathieu van der Poel	Alpecin	Netherlands	34	M
Matti Breschel	Cofidis	Denmark	12	M
Miguel Indurain	BMC	Spain	76	M
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

(Mark Renshaw has 30 num_pro_wins currently)

RootCommand 9:



RootCommands 10A:



RootCommands 10B:

SQL Client APP – (MJL – CNT 4714 – Spring 2023)

Connection Details

Properties File:

Username:

Password:

Enter An SQL Command

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

All 11 screenshots from the execution of the commands specified in the **project3clientuserscript.sql** script:

ClientCommand 1:

SQL Client APP – (MJL – CNT 4714 – Spring 2023)

Connection Details

Properties File:

Username:

Password:

Enter An SQL Command

CONNECTED TO: jdbc:mysql://localhost:3306/project3?useTimezone=True&serverTimezone=UTC.

SQL Execution Result Window

ridername
Elisa Balsamo

ClientCommands 2A:

SQL Client APP – (MJL – CNT 4714 – Spring 2023)

Connection Details

Properties File:

Username:

Password:

Enter An SQL Command

CONNECTED TO: jdbc:mysql://localhost:3306/project3?useTimezone=True&serverTimezone=UTC.

SQL Execution Result Window

ridername	teamname	nationality	num_pro_wins	gender
Alberto Contador	Astana	Spain	21	M
Alessandro Ballan	Lampre	Italy	21	M
Andy Schleck	Leopard-Trek	Luxembourg	35	M
Bradley Wiggins	Ti-Raleigh	Great Britain	13	M
Ceylin del Carmen Al...	Alpecin-Fenix	Netherlands	89	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	Cofidis	Switzerland	50	M

ClientCommands 2B:

SQL Client APP – (MJL – CNT 4714 – Spring 2023)

Connection Details

Properties File:

Username:

Password:

Enter An SQL Command

CONNECTED TO: jdbc:mysql://localhost:3306/project3?useTimezone=True&serverTimezone=UTC.

SQL Execution Result Window

Database error

DELETE command denied to user 'client'@'localhost' for table 'riders'

确定

ClientCommands 2C:

SQL Client APP – (MJL – CNT 4714 – Spring 2023)

Connection Details

Properties File:

Username:

Password:

Enter An SQL Command

CONNECTED TO: jdbc:mysql://localhost:3306/project3?useTimezone=True&serverTimezone=UTC.

SQL Execution Result Window

ridername	teamname	nationality	num_pro_wins	gender
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	Austalia	55	M
Stuart OGrady	CSC	Australia	20	M
Thor Hushovd	SaxoBank	Norway	29	M
Zednek Stybar	Quick-Step	Czechoslovakia	40	M

(There are still Norway riders)

ClientCommands 3A:

SQL Client APP – (MJL – CNT 4714 – Spring 2023)

Connection Details

Properties File:

Username:

Password:

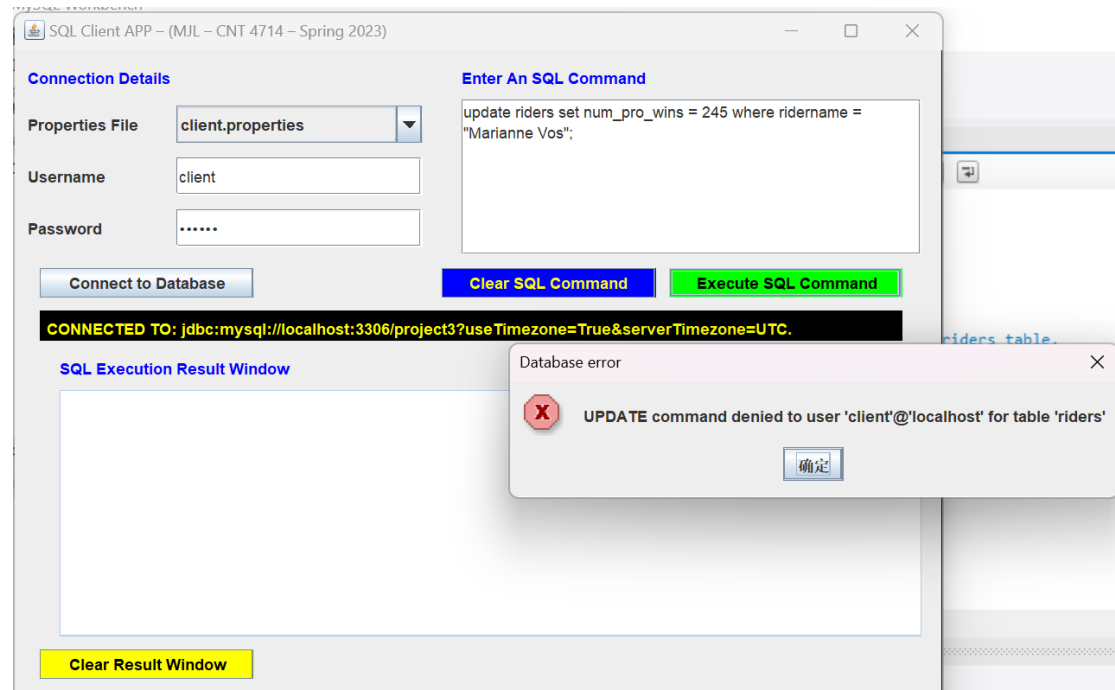
Enter An SQL Command

CONNECTED TO: jdbc:mysql://localhost:3306/project3?useTimezone=True&serverTimezone=UTC.

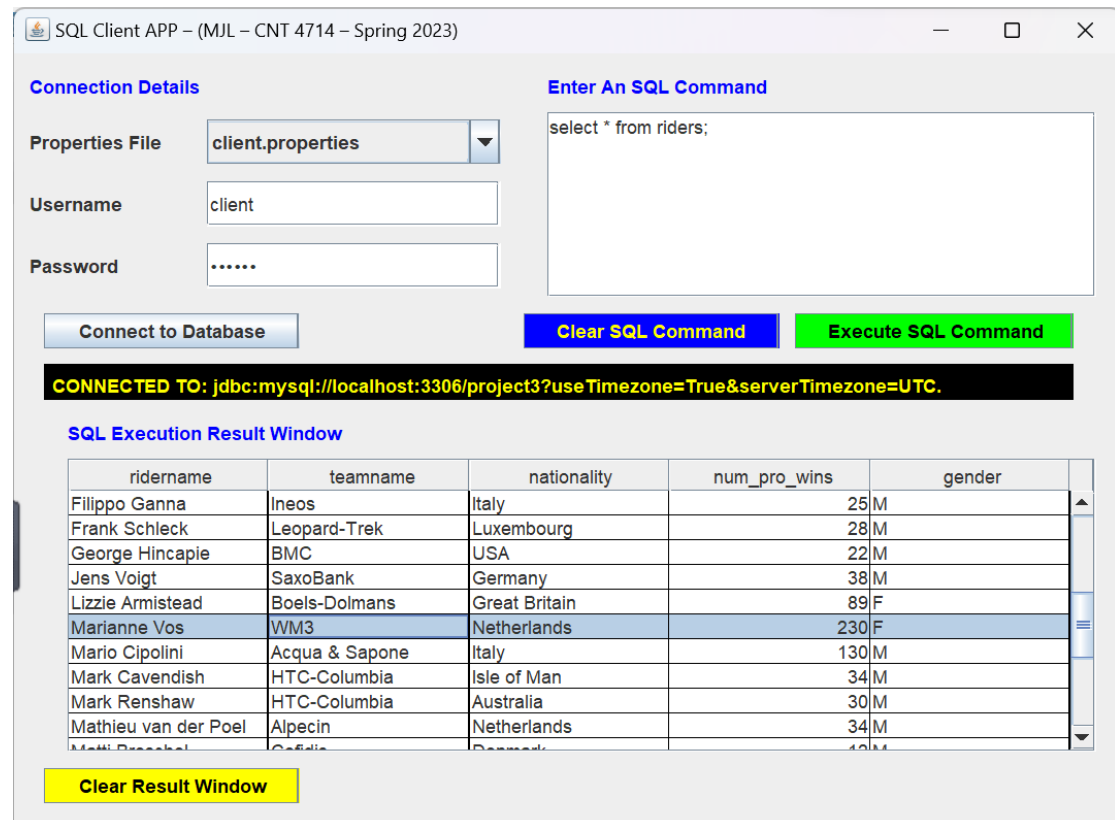
SQL Execution Result Window

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 Al...	Alpecin-Fenix	Netherlands	89	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 Cancellari	SaxoBank	Switzerland	50	M

ClientCommands 3B:



ClientCommands 3C:



(Marianne Vos still has 230 num_pro_wins)

ClientCommand 4:

SQL Client APP – (MJL – CNT 4714 – Spring 2023)

Connection Details

Properties File

client.properties

Username

client

Password

.....

Connect to Database

Enter An SQL Command

select ridername
from racewinners
where racename = "Tour de France" and raceyear = 2021;

Clear SQL Command

Execute SQL Command

CONNECTED TO: jdbc:mysql://localhost:3306/project3?useTimezone=True&serverTimezone=UTC.

SQL Execution Result Window

ridername

Tadej Pogacar

Clear Result Window

ClientCommand 5:

SQL Client APP – (MJL – CNT 4714 – Spring 2023)

Connection Details

Properties File

client.properties

Username

client

Password

.....

Connect to Database

Enter An SQL Command

select count(ridername) as number_of_riders
from riders;

Clear SQL Command

Execute SQL Command

CONNECTED TO: jdbc:mysql://localhost:3306/project3?useTimezone=True&serverTimezone=UTC.

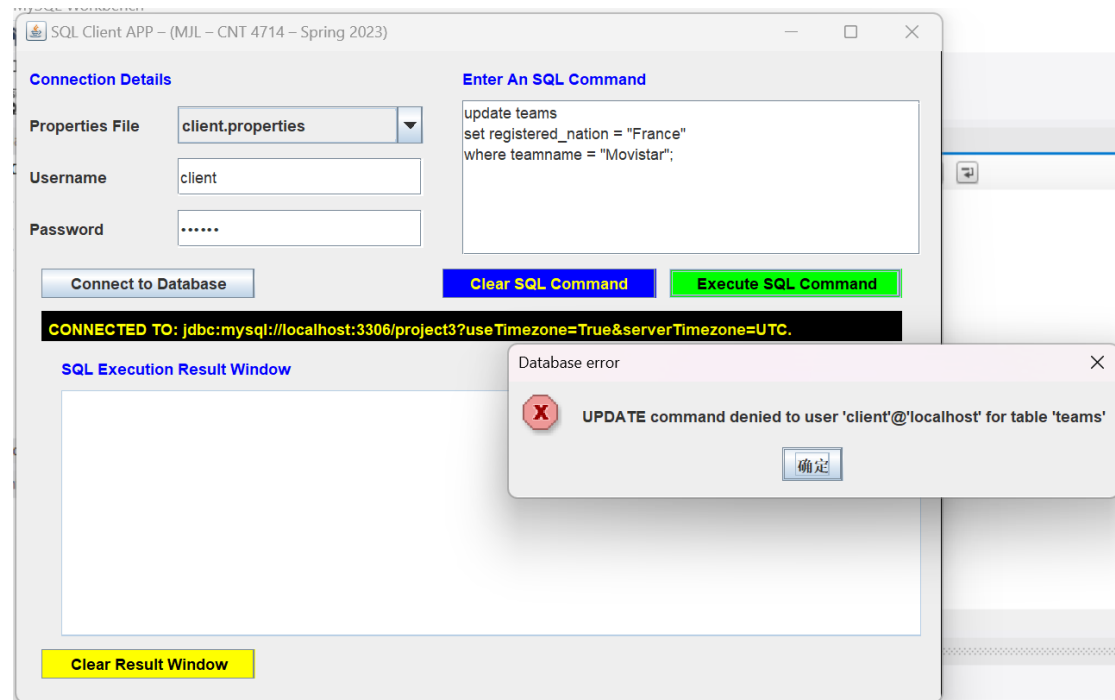
SQL Execution Result Window

number_of_riders

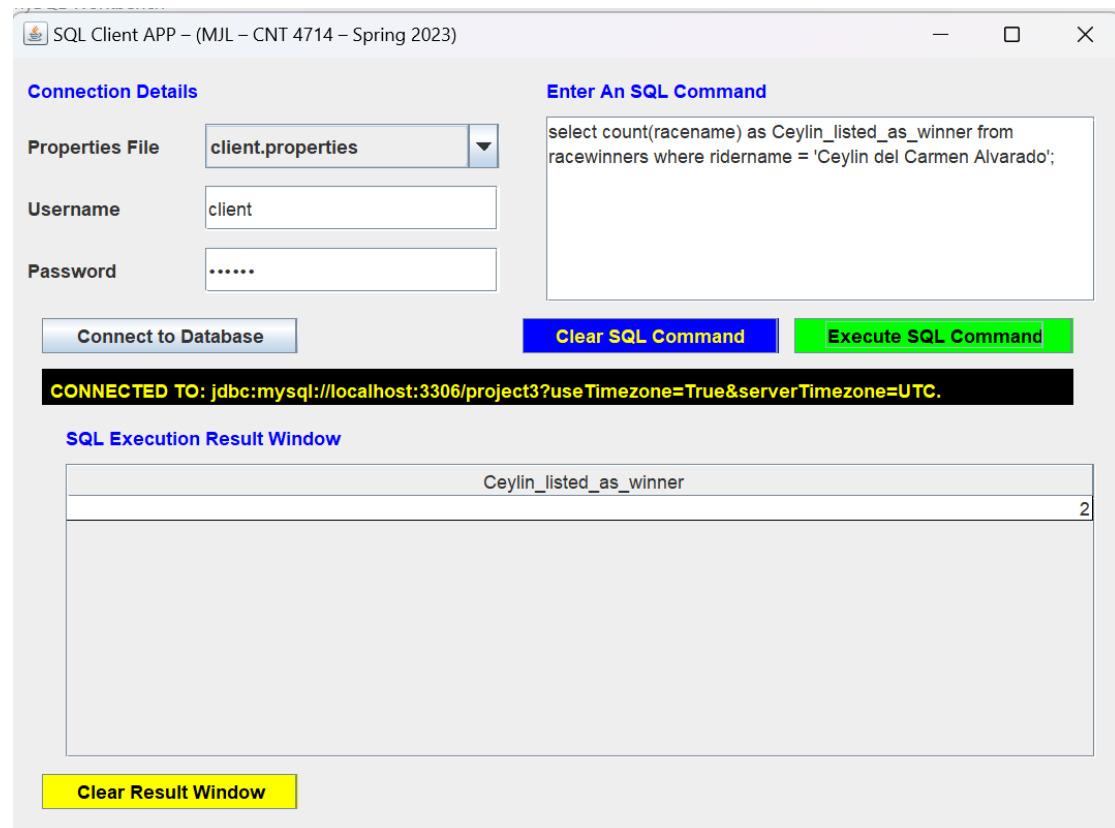
33

Clear Result Window

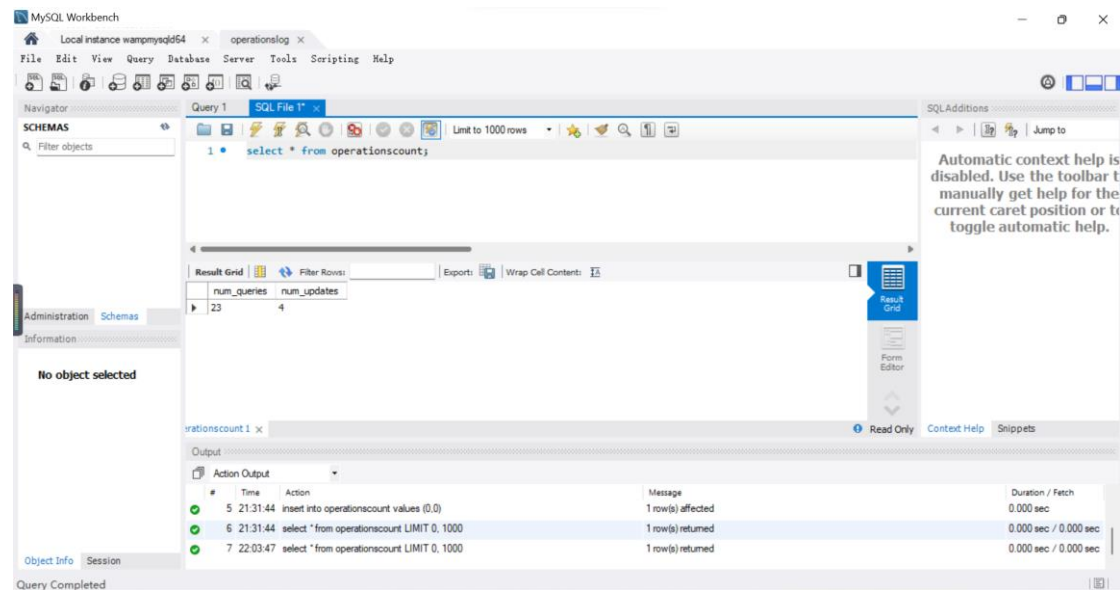
ClientCommand 6:



ClientCommand 7:

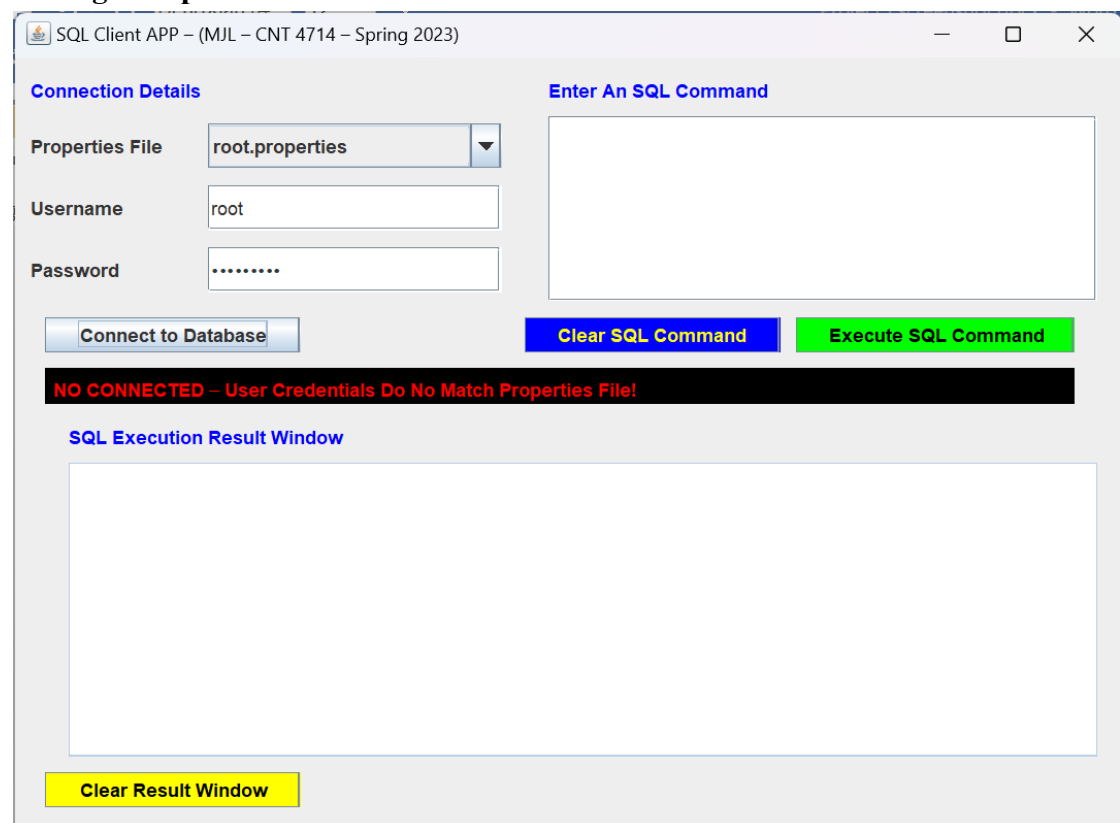


A screenshot showing the final state of the operationscount table after executing the command `select * from operationscount;` once both the root user and client user command script files have been completely executed:



A screenshot showing a mismatch between the user-entered credentials and the selected properties file resulting in no connection to the database being established:

Wrong root password:



Wrong client password:

SQL Client APP – (MJL – CNT 4714 – Spring 2023)

Connection Details

Properties File: client.properties

Username: client

Password:

Enter An SQL Command

Connect to Database Clear SQL Command Execute SQL Command

NO CONNECTED – User Credentials Do No Match Properties File!

SQL Execution Result Window

Clear Result Window

Use root properties for client:

SQL Client APP – (MJL – CNT 4714 – Spring 2023)

Connection Details

Properties File: root.properties

Username: client

Password:

Enter An SQL Command

Connect to Database Clear SQL Command Execute SQL Command

NO CONNECTED – User Credentials Do No Match Properties File!

SQL Execution Result Window

Clear Result Window

Use client properties for root:

SQL Client APP – (MJL – CNT 4714 – Spring 2023)

Connection Details

Properties File: client.properties

Username: root

Password:

Enter An SQL Command

Connect to Database

Clear SQL Command

Execute SQL Command

NO CONNECTED – User Credentials Do No Match Properties File!

SQL Execution Result Window

Clear Result Window