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Project 3  
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## Root User Commands

### Command 1

```
# Query: Which rider won Milan-San Remo in 2010?  
select ridername  
from racewinners  
where racename = 'Milan-San Remo' and raceyear = 2010;
```

The screenshot shows a window titled "SQL Client GUI - (RMA)". It is divided into several sections:

- Enter Database Information:** Contains four input fields: "JDBC Driver" (com.mysql.jdbc.Driver), "Database URL" (jdbc:mysql://localhost:3306/project3), "Username" (root), and "Password" (masked with dots).
- Enter a SQL Command:** A text area containing the SQL query: 

```
select ridername  
from racewinners  
where racename = 'Milan-San Remo' and raceyear = 2010;
```
- Buttons:** Below the input fields are four buttons: "Connected to jdbc:mysql://localhost:3306/project3" (red), "Disconnect from Database" (red), "Clear Command" (blue), and "Execute SQL Command" (green).
- SQL Execution Result:** A table with one column "ridername" and one row containing "Mark Cavendish".
- Clear Result Window:** A yellow button at the bottom left.

## Command 2

# Query: List the teams that ride bikes manufactured in Italy.

```
select teamname
```

```
from teams
```

```
where bikename in (select bikename
```

```
    from bikes
```

```
    where country_of_origin = 'Italy');
```

SQL Client GUI - (RMA)

Enter Database Information

Enter a SQL Command

JDBC Driver

com.mysql.jdbc.Driver

Database URL

jdbc:mysql://localhost:3306/project3

Username

root

Password

••••

select teamname  
from teams  
where bikename in (select bikename  
 from bikes  
 where country\_of\_origin = 'Italy');

Connected to jdbc:mysql://localhost:3306/project3

Disconnect from Database

Clear Command

Execute SQL Command

SQL Execution Result

teamname
Brooklyn
Lampre
Landbouwkredit
Molteni
Ti-Raleigh

Clear Result Window

### Command 3

# 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);
```

SQL Client GUI - (RMA)

Enter Database Information

JDBC Driver

com.mysql.jdbc.Driver

Database URL

jdbc:mysql://localhost:3306/project3

Username

root

Password

••••

Enter a SQL Command

select distinct racename  
from racewinners  
where ridername in (select ridername  
from riders  
where num\_pro\_wins > 50);

Connected to jdbc:mysql://localhost:3306/project3

Disconnect from Database

Clear Command

Execute SQL Command

SQL Execution Result

racename
Amstel Gold
GP-E3
Liege-Bastogne-Liege
Paris-Roubaix
Rund de Flandren

Clear Result Window

#### Command 4

# 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
                                    )
                 );
```

SQL Client GUI - (RMA)

Enter Database Information

JDBC Driver

com.mysql.jdbc.Driver

Database URL

jdbc:mysql://localhost:3306/project3

Username

root

Password

••••

Enter a SQL Command

select ridername  
from riders  
where teamname = (select teamname  
 from riders  
 where ridername = (select ridername  
 from racewinners  
 where racename = 'Paris-Roubaix'  
 and raceyear = 2010  
 )  
 );

Connected to jdbc:mysql://localhost:3306/project3

Disconnect from Database

Clear Command

Execute SQL Command

SQL Execution Result

ridername
Fabian Cancellara
Jens Voigt
Niki Sorensen
Thor Hushovd

Clear Result Window

## Command 5 (Part 1)

```
# 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);  
select * from riders;
```

SQL Client GUI - (RMA)

Enter Database Information

JDBC Driver  
com.mysql.jdbc.Driver

Database URL  
jdbc:mysql://localhost:3306/project3

Username  
root

Password  
●●●●

Enter a SQL Command

select \* from riders;

Connected to jdbc:mysql://localhost:3306/project3

Disconnect from Database

Clear Command

Execute SQL Command

SQL Execution Result

ridername	teamname	nationality	num_pro_wins
Andy Schleck	Leopard-Trek	Luxembourg	35
Bradley Wiggins	Ti-Raleigh	Great Britain	13
Dietrich Thurau	Ti-Raleigh	Germany	78
Fabian Cancellara	SaxoBank	Switzerland	58
Fedor den Hertog	Acqua & Sapone	Netherlands	20
Frank Schleck	Leopard-Trek	Luxembourg	28
George Hincapie	BMC	USA	22
Jens Voigt	SaxoBank	Germany	38
Johan Museeuw	Quick-Step	Belgium	120
Mario Cipolini	Acqua & Sapone	Italy	130
Mark Cavendish	HTC-Columbia	Isle of Man	34
Matti Breschel	Cofidis	Denmark	12
Miguel Indurain	BMC	Spain	76
Nicolas Roche	Cofidis	Ireland	8
Niki Sorensen	SaxoBank	Norway	32

Clear Result Window

## Command 5 (Part 2)

```
# 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);  
select * from riders;
```

The screenshot displays the 'SQL Client GUI - (RMA)' window. On the left, under 'Enter Database Information', the fields are: JDBC Driver (com.mysql.jdbc.Driver), Database URL (jdbc:mysql://localhost:3306/project3), Username (root), and Password (masked with dots). Below these, a red status message reads 'Connected to jdbc:mysql://localhost:3306/project3'. On the right, under 'Enter a SQL Command', the text area contains the command: 'insert into riders values ('Mark Renshaw','HTC-Columbia','Australia',26);'. A green 'Execute SQL Command' button is positioned to the right of the text area. At the bottom left, there is a yellow 'Clear Result Window' button. A 'Success' dialog box is overlaid in the center, displaying an information icon, the text 'Your query: insert into riders values ('Mark Renshaw','HTC-Columbia','Australia',26); was completed successfully.', and an 'OK' button.

SQL Client GUI - (RMA)

Enter Database Information

JDBC Driver: com.mysql.jdbc.Driver

Database URL: jdbc:mysql://localhost:3306/project3

Username: root

Password: ....

Connected to jdbc:mysql://localhost:3306/project3

Enter a SQL Command

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

Execute SQL Command

SQL Execution Result

Clear Result Window

Success

Your query:  
insert into riders values ('Mark Renshaw','HTC-Columbia','Australia',26);  
was completed successfully.

OK



## Command 5 (Part 3)

```
# 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);  
select * from riders;
```

SQL Client GUI - (RMA)

Enter Database Information

JDBC Driver

com.mysql.jdbc.Driver

Database URL

jdbc:mysql://localhost:3306/project3

Username

root

Password

••••

Enter a SQL Command

select \* from riders;

Connected to jdbc:mysql://localhost:3306/project3

Disconnect from Database

Clear Command

Execute SQL Command

SQL Execution Result

ridername	teamname	nationality	num_pro_wins
Andy Schleck	Leopard-Trek	Luxemborg	33
Bradley Wiggins	Ti-Raleigh	Great Britain	13
Dietrich Thurau	Ti-Raleigh	Germany	78
Fabian Cancellara	SaxoBank	Switzerland	58
Fedor den Hertog	Acqua & Sapone	Netherlands	20
Frank Schleck	Leopard-Trek	Luxemborg	28
George Hincapie	BMC	USA	22
Jens Voigt	SaxoBank	Germany	38
Johan Museeuw	Quick-Step	Belgium	120
Mario Cipolini	Acqua & Sapone	Italy	130
Mark Cavendish	HTC-Columbia	Isle of Man	34
Mark Renshaw	HTC-Columbia	Australia	26
Matti Breschel	Cofidis	Denmark	12
Miguel Indurain	BMC	Spain	76
Nicolas Roche	Cofidis	Ireland	8

Clear Result Window

## Command 6

```
# 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;
```

SQL Client GUI - (RMA)

Enter Database Information

Enter a SQL Command

JDBC Driver

com.mysql.jdbc.Driver

Database URL

jdbc:mysql://localhost:3306/project3

Username

root

Password

••••

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

Connected to jdbc:mysql://localhost:3306/project3

Disconnect from Database

Clear Command

Execute SQL Command

SQL Execution Result

ridername
Eddy Merckx
Fabian Cancellara
Roger deVlaeminck

Clear Result Window



## Command 7 (Part 1)

```
# Delete all the riders from Norway from the riders table.  
# * * * Do a "before" and "after" select * from riders for this command.  
select * from riders;  
delete from riders where nationality = 'Norway';  
select * from riders;
```

SQL Client GUI - (RMA)

Enter Database Information

JDBC Driver  
com.mysql.jdbc.Driver

Database URL  
jdbc:mysql://localhost:3306/project3

Username  
root

Password  
●●●●

Enter a SQL Command

select \* from riders;

Connected to jdbc:mysql://localhost:3306/project3

Disconnect from Database

Clear Command

Execute SQL Command

SQL Execution Result

ridername	teamname	nationality	num_pro_wins
Mark Renshaw	HTC-Columbia	Australia	26
Matti Breschel	Cofidis	Denmark	12
Miguel Indurain	BMC	Spain	76
Nicolas Roche	Cofidis	Ireland	8
Niki Sorensen	SaxoBank	Norway	32
Peter Post	Ti-Raleigh	Netherlands	150
Phillipe Gilbert	BMC	Belgium	85
Robbie McKewen	Brooklyn	Austalia	55
Roger deVlaeminck	Brooklyn	Belgium	134
Stuart OGrady	CSC	Australia	20
Sven Nys	Landbouwkredit	Belgium	94
Thor Hushovd	SaxoBank	Norway	29
Tom Boonen	Quick-Step	Belgium	67
Zednek Stybar	Quick-Step	Czechoslovakia	40

Clear Result Window

## Command 7 (Part 2)

```
# Delete all the riders from Norway from the riders table.  
# * * * Do a "before" and "after" select * from riders for this command.  
select * from riders;  
delete from riders where nationality = 'Norway';  
select * from riders;
```

The screenshot shows the SQL Client GUI with the following components:

- Enter Database Information:**
  - JDBC Driver: `com.mysql.jdbc.Driver`
  - Database URL: `jdbc:mysql://localhost:3306/project3`
  - Username: `root`
  - Password: `....`
- Enter a SQL Command:**
  - delete from riders where nationality = 'Norway';
- Connected to jdbc:mysql://localhost:3306/project3**
- SQL Execution Result:**

ridername	team	nationality	num_pro_wins
Mark Renshaw	HTC-Cofidis	Netherlands	26
Matti Breschel	Cofidis	Denmark	12
Miguel Indurain	BMC	Spain	76
Nicolas Roche	Cofidis	France	8
Niki Sorensen	SaxoBank	Norway	32
Peter Post	Ti-Raleigh	Netherlands	150
Phillipe Gilbert	BMC	Belgium	85
Robbie McKewen	Brooklyn	Australia	55
Roger de Vlaeminck	Brooklyn	Belgium	134
Stuart OGrady	CSC	Australia	20
Sven Nys	Landbouwkredit	Belgium	94
Thor Hushovd	SaxoBank	Norway	29
Tom Boonen	Quick-Step	Belgium	67
Zdenek Stybar	Quick-Step	Czechoslovakia	40
- Success Dialog:**

Your query:  
delete from riders where nationality = 'Norway';  
was completed successfully.
- Buttons:**
  - Execute SQL Command (Green)
  - Clear Result Window (Yellow)

## Command 7 (Part 3)

```
# Delete all the riders from Norway from the riders table.  
# * * * Do a "before" and "after" select * from riders for this command.  
select * from riders;  
delete from riders where nationality = 'Norway';  
select * from riders;
```

SQL Client GUI - (RMA)

Enter Database Information

Enter a SQL Command

JDBC Driver

com.mysql.jdbc.Driver

Database URL

jdbc:mysql://localhost:3306/project3

Username

root

Password

••••

select \* from riders;

Connected to jdbc:mysql://localhost:3306/project3

Disconnect from Database

Clear Command

Execute SQL Command

SQL Execution Result

ridername	teamname	nationality	num_pro_wins
Mario Cipolini	Acqua & Sapone	Italy	130
Mark Cavendish	HTC-Columbia	Isle of Man	34
Mark Renshaw	HTC-Columbia	Australia	26
Matti Breschel	Cofidis	Denmark	12
Miguel Indurain	BMC	Spain	76
Nicolas Roche	Cofidis	Ireland	8
Peter Post	Ti-Raleigh	Netherlands	150
Phillipe Gilbert	BMC	Belgium	85
Robbie McKewen	Brooklyn	Austalia	55
Roger deVlaeminck	Brooklyn	Belgium	134
Stuart OGrady	CSC	Australia	20
Sven Nys	Landbouwkredit	Belgium	94
Tom Boonen	Quick-Step	Belgium	67
Zednek Stybar	Quick-Step	Czechoslovakia	40

Clear Result Window

## Command 8 (Part 1)

```
# 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;
```

SQL Client GUI - (RMA)

Enter Database Information

Enter a SQL Command

JDBC Driver

com.mysql.jdbc.Driver

Database URL

jdbc:mysql://localhost:3306/project3

Username

root

Password

....

select \* from riders;

Connected to jdbc:mysql://localhost:3306/project3

Disconnect from Database

Clear Command

Execute SQL Command

SQL Execution Result

ridername	teamname	nationality	num_pro_wins
Alberto Contador	Astana	Spain	21
Alesandro Ballan	Lampre	Italy	21
Andy Schleck	Leopard-Trek	Luxemborg	35
Bradley Wiggins	Ti-Raleigh	Great Britain	13
Dietrich Thurau	Ti-Raleigh	Germany	78
Fabian Cancellara	SaxoBank	Switzerland	58
Fedor den Hertog	Acqua & Sapone	Netherlands	20
Frank Schleck	Leopard-Trek	Luxemborg	28
George Hincapie	BMC	USA	22
Jens Voigt	SaxoBank	Germany	38
Johan Museeuw	Quick-Step	Belgium	120
Mario Cipolini	Acqua & Sapone	Italy	130
Mark Cavendish	HTC-Columbia	Isle of Man	34
Mark Renshaw	HTC-Columbia	Australia	26

Clear Result Window

## Command 8 (Part 2)

```
# 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;
```

The screenshot shows the SQL Client GUI with the following components:

- Enter Database Information:**
  - JDBC Driver: `com.mysql.jdbc.Driver`
  - Database URL: `jdbc:mysql://localhost:3306/project3`
  - Username: `root`
  - Password: `....`
- Enter a SQL Command:**  
`update riders set num_pro_wins = 30 where ridername = "Mark Renshaw";`
- Connected to jdbc:mysql://localhost:3306/project3**
- SQL Execution Result:**

ridername	num_pro_wins
Alberto Contador	21
Alessandro Ballan	21
Andy Schleck	35
Bradley Wiggins	13
Dietrich Thurau	78
Fabian Cancellara	58
Fedor den Hertog	20
Frank Schleck	28
George Hincapie	22
Jens Voigt	38
Johan Museeuw	120
Mario Cipolini	130
Mark Cavendish	34
Mark Renshaw	26
- Success Dialog:**

Your query:  
`update riders set num_pro_wins = 30 where ridername = "Mark Renshaw";`  
was completed successfully.
- Clear Result Window** button



## Command 8 (Part 3)

```
# 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;
```

SQL Client GUI - (RMA)

Enter Database Information

Enter a SQL Command

JDBC Driver

Database URL

Username

Password

com.mysql.jdbc.Driver

jdbc:mysql://localhost:3306/project3

root

••••

select \* from riders;

Connected to jdbc:mysql://localhost:3306/project3

Disconnect from Database

Clear Command

Execute SQL Command

SQL Execution Result

ridername	teamname	nationality	num_pro_wins
Alberto Contador	Astana	Spain	21
Alessandro Ballan	Lampre	Italy	21
Andy Schleck	Leopard-Trek	Luxemborg	35
Bradley Wiggins	Ti-Raleigh	Great Britain	13
Dietrich Thurau	Ti-Raleigh	Germany	78
Fabian Cancellara	SaxoBank	Switzerland	58
Fedor den Hertog	Acqua & Sapone	Netherlands	20
Frank Schleck	Leopard-Trek	Luxemborg	28
George Hincapie	BMC	USA	22
Jens Voigt	SaxoBank	Germany	38
Johan Museeuw	Quick-Step	Belgium	120
Mario Cipolini	Acqua & Sapone	Italy	130
Mark Cavendish	HTC-Columbia	Isle of Man	34
Mark Renshaw	HTC-Columbia	Australia	30

Clear Result Window

## Client User Commands

### Command 1

```
# Query: Which rider won Milan-San Remo in 2010?  
select ridername  
from racewinners  
where racename = 'Milan-San Remo' and raceyear = 2010;
```

The screenshot shows a window titled "SQL Client GUI - (RMA)". It is divided into several sections:

- Enter Database Information:** Contains four fields: "JDBC Driver" (com.mysql.jdbc.Driver), "Database URL" (jdbc:mysql://localhost:3306/project3), "Username" (client), and "Password" (masked with dots).
- Enter a SQL Command:** A text area containing the SQL query: 

```
select ridername  
from racewinners  
where racename = 'Milan-San Remo' and raceyear = 2010;
```
- Buttons:** A row of four buttons: "Connected to jdbc:mysql://localhost:3306/project3" (red), "Disconnect from Database" (red), "Clear Command" (blue), and "Execute SQL Command" (green).
- SQL Execution Result:** A table with one row: 

ridername
Mark Cavendish
- Clear Result Window:** A yellow button at the bottom left.



## Command 2 (Part 1)

```
# Delete all the riders from Norway from the riders table.  
# * * * Do a "before" and "after" select * from riders for this command.  
# Note: the before and after select statements will execute, but the delete will not  
# thus no changes will be reflected in the before and after snapshots.  
select * from riders;  
delete from riders where nationality = 'Norway';  
select * from riders;
```

SQL Client GUI - (RMA)

Enter Database Information

Enter a SQL Command

JDBC Driver

com.mysql.jdbc.Driver

Database URL

jdbc:mysql://localhost:3306/project3

Username

client

Password

.....

select \* from riders;

Connected to jdbc:mysql://localhost:3306/project3

Disconnect from Database

Clear Command

Execute SQL Command

SQL Execution Result

ridername	teamname	nationality	num_pro_wins
Mark Cavendish	HTC-Columbia	Isle of Man	34
Matti Breschel	Cofidis	Denmark	12
Miguel Indurain	BMC	Spain	76
Nicolas Roche	Cofidis	Ireland	8
Niki Sorensen	SaxoBank	Norway	32
Peter Post	Ti-Raleigh	Netherlands	150
Phillipe Gilbert	BMC	Belgium	85
Robbie McKewen	Brooklyn	Austalia	55
Roger deVlaeminck	Brooklyn	Belgium	134
Stuart OGrady	CSC	Australia	20
Sven Nys	Landbouwkredit	Belgium	94
Thor Hushovd	SaxoBank	Norway	29
Tom Boonen	Quick-Step	Belgium	67
Zednek Stybar	Quick-Step	Czechoslovakia	40

Clear Result Window

## Command 2 (Part 2)

```
# Delete all the riders from Norway from the riders table.  
# * * * Do a "before" and "after" select * from riders for this command.  
# Note: the before and after select statements will execute, but the delete will not  
#      thus no changes will be reflected in the before and after snapshots.  
select * from riders;  
delete from riders where nationality = 'Norway';  
select * from riders;
```

SQL Client GUI - (RMA)

Enter Database Information

JDBC Driver:

Database URL:

Username:

Password:


Enter a SQL Command

Connected to jdbc:mysql://localhost:3306/project3

SQL Execution Result

ridersname	num_pro_wins
Mark Cavendish	34
Matti Breschel	12
Miguel Indurain	76
Nicolas Roche	8
Niki Sorensen	32
Peter Post	150
Phillipe Gilbert	85
Robbie McKewen	55
Roger deVlaeminck	134
Stuart OGrady	20
Sven Nys	94
Thor Hushovd	29
Tom Boonen	67
Zednek Stybar	40

Database error

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

## Command 2 (Part 3)

```
# Delete all the riders from Norway from the riders table.  
# * * * Do a "before" and "after" select * from riders for this command.  
# Note: the before and after select statements will execute, but the delete will not  
#      thus no changes will be reflected in the before and after snapshots.  
select * from riders;  
delete from riders where nationality = 'Norway';  
select * from riders;
```

SQL Client GUI - (RMA)

Enter Database Information

JDBC Driver

com.mysql.jdbc.Driver

Database URL

jdbc:mysql://localhost:3306/project3

Username

client

Password

•••••

Enter a SQL Command

select \* from riders;

Connected to jdbc:mysql://localhost:3306/project3

Disconnect from Database

Clear Command

Execute SQL Command

SQL Execution Result

ridername	teamname	nationality	num_pro_wins
Mark Cavendish	HTC-Columbia	Isle of Man	34
Matti Breschel	Cofidis	Denmark	12
Miguel Indurain	BMC	Spain	76
Nicolas Roche	Cofidis	Ireland	8
Niki Sorensen	SaxoBank	Norway	32
Peter Post	Ti-Raleigh	Netherlands	150
Phillipe Gilbert	BMC	Belgium	85
Robbie McKewen	Brooklyn	Austalia	55
Roger deVlaeminck	Brooklyn	Belgium	134
Stuart OGrady	CSC	Australia	20
Sven Nys	Landbouwkredit	Belgium	94
Thor Hushovd	SaxoBank	Norway	29
Tom Boonen	Quick-Step	Belgium	67
Zednek Stybar	Quick-Step	Czechoslovakia	40

Clear Result Window

### Command 3 (Part 1)

**Had to re-add "Mark Renshaw since I reset the database between root and client commands.**

```
# Update rider Mark Renshaw to show number of wins = 40 in the riders table.  
# * * Do a "before" and "after" selection on the riders table  
# Note: the before and after select statements will execute, but the delete will not  
# thus no changes will be reflected in the before and after snapshots.  
select * from riders;  
update riders set num_pro_wins = 40 where ridername = "Mark Renshaw";  
select * from riders;
```

SQL Client GUI - (RMA)

Enter Database Information

JDBC Driver  
com.mysql.jdbc.Driver

Database URL  
jdbc:mysql://localhost:3306/project3

Username  
client

Password  
•••••

Enter a SQL Command

select \* from riders;

Connected to jdbc:mysql://localhost:3306/project3

Disconnect from Database

Clear Command

Execute SQL Command

SQL Execution Result

ridername	teamname	nationality	num_pro_wins
Alberto Contador	Astana	Spain	21
Alesandro Ballan	Lampre	Italy	21
Andy Schleck	Leopard-Trek	Luxemborg	35
Bradley Wiggins	Ti-Raleigh	Great Britain	13
Dietrich Thurau	Ti-Raleigh	Germany	78
Fabian Cancellara	SaxoBank	Switzerland	58
Fedor den Hertog	Acqua & Sapone	Netherlands	20
Frank Schleck	Leopard-Trek	Luxemborg	28
George Hincapie	BMC	USA	22
Jens Voigt	SaxoBank	Germany	38
Johan Museeuw	Quick-Step	Belgium	120
Mario Cipolini	Acqua & Sapone	Italy	130
Mark Cavendish	HTC-Columbia	Isle of Man	34
Mark Renshaw	HTC-Columbia	Australia	26

Clear Result Window



### Command 3 (Part 2)

**Had to re-add "Mark Renshaw since I reset the database between root and client commands.**

```
# Update rider Mark Renshaw to show number of wins = 40 in the riders table.  
# * * Do a "before" and "after" selection on the riders table  
# Note: the before and after select statements will execute, but the delete will not  
# thus no changes will be reflected in the before and after snapshots.  
select * from riders;  
update riders set num_pro_wins = 40 where ridername = "Mark Renshaw";  
select * from riders;
```

The screenshot shows the SQL Client GUI with the following components:

- Enter Database Information:**
  - JDBC Driver: `com.mysql.jdbc.Driver`
  - Database URL: `jdbc:mysql://localhost:3306/project3`
  - Username: `client`
  - Password: `*****`
- Enter a SQL Command:**
  - Command: `update riders set num_pro_wins = 40 where ridername = "Mark Renshaw";`
- Buttons:**
  - Connected to `jdbc:mysql://localhost:3306/project3` (red)
  - Disconnect from Database (red)
  - Clear Command (grey)
  - Execute SQL Command (green)
- SQL Execution Result:**

ridername	num_pro_wins
Alberto Contador	21
Alessandro Ballan	21
Andy Schleck	35
Bradley Wiggins	13
Dietrich Thurau	78
Fabian Cancellara	58
Fedor den Hertog	20
Frank Schleck	28
George Hincapie	22
Jens Voigt	38
Johan Museeuw	120
Mario Cipolini	130
Mark Cavendish	34
Mark Renshaw	26
- Database error dialog:**
  - Message: `UPDATE command denied to user 'client'@'localhost' for table 'riders'`
  - Buttons: OK
- Clear Result Window:** (yellow button)

### Command 3 (Part 3)

**Had to re-add "Mark Renshaw since I reset the database between root and client commands.**

```
# Update rider Mark Renshaw to show number of wins = 40 in the riders table.  
# * * Do a "before" and "after" selection on the riders table  
# Note: the before and after select statements will execute, but the delete will not  
# thus no changes will be reflected in the before and after snapshots.  
select * from riders;  
update riders set num_pro_wins = 40 where ridername = "Mark Renshaw";  
select * from riders;
```

SQL Client GUI - (RMA)

Enter Database Information

JDBC Driver  
com.mysql.jdbc.Driver

Database URL  
jdbc:mysql://localhost:3306/project3

Username  
client

Password  
•••••

Enter a SQL Command

select \* from riders;

Connected to jdbc:mysql://localhost:3306/project3

Disconnect from Database

Clear Command

Execute SQL Command

SQL Execution Result

ridername	teamname	nationality	num_pro_wins
Alberto Contador	Astana	Spain	21
Alesandro Ballan	Lampre	Italy	21
Andy Schleck	Leopard-Trek	Luxemborg	35
Bradley Wiggins	Ti-Raleigh	Great Britain	13
Dietrich Thurau	Ti-Raleigh	Germany	78
Fabian Cancellara	SaxoBank	Switzerland	58
Fedor den Hertog	Acqua & Sapone	Netherlands	20
Frank Schleck	Leopard-Trek	Luxemborg	28
George Hincapie	BMC	USA	22
Jens Voigt	SaxoBank	Germany	38
Johan Museeuw	Quick-Step	Belgium	120
Mario Cipolini	Acqua & Sapone	Italy	130
Mark Cavendish	HTC-Columbia	Isle of Man	34
Mark Renshaw	HTC-Columbia	Australia	26

Clear Result Window