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Enterprise Computing

PROJECT 3 SQL CLIENT APPS

1. java files attached
2. project3rootuserscript.sql, 17 screenshots

Command 1, Query: Which rider won World Cup Cyclocross- Elite Women in 2024?

Command 2, Query: List the teams that ride Colnago bikes.

SQL Client Application

Connection Details

DB URL Properties: project3.properties

User Properties: client2.properties / root.properties

Username: root

Password: ••••••••

Connect   Disconnect

Enter SQL Command

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

Clear SQL Command   Execute SQL Command

CONNECTED TO jdbc:mysql://localhost:3306/project3

SQL Execution Results Window

teamname
Landbouwkredit
Molteni
UAE

Clear Results Window

Command 3, Query: List the name of every race won by a rider who has more than 50 professional wins.

SQL Client Application

Connection Details

DB URL Properties: project3.properties

User Properties: client2.properties / root.properties

Username: root

Password: ••••••••

Connect   Disconnect

Enter SQL Command

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

Clear SQL Command   Execute SQL Command

CONNECTED TO jdbc:mysql://localhost:3306/project3

SQL Execution Results 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 Results Window

Command 4, Query: List the names of all the riders on the same team as the winner of the 2010 Paris-Roubaix race.

Command 5, Insert the rider Mark Renshaw into the riders table.

A. *select * from riders;*

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

C. *select * from riders;*

Command 6, List the names of those riders who have won Paris-Roubaix at least two times.

SQL Client Application

Connection Details

DB URL Properties: project3.properties

User Properties: client2.properties
root.properties

Username: root

Password: ••••••••

Connect   Disconnect

Enter SQL Command

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

Clear SQL Command   Execute SQL Command

CONNECTED TO jdbc:mysql://localhost:3306/project3

SQL Execution Results Window

ridername
Eddy Merckx
Roger deVlaeminck
Fabian Cancellara

Clear Results Window

Command 7, Delete all the riders from Belgium from the riders table.

A.   select * from riders;

SQL Client Application

Connection Details

DB URL Properties: project3.properties

User Properties: client2.properties
root.properties

Username: root

Password: ••••••••

Connect   Disconnect

Enter SQL Command

```
select * from riders;
```

Clear SQL Command   Execute SQL Command

CONNECTED TO jdbc:mysql://localhost:3306/project3

SQL Execution Results Window

ridername	teamname	nationality	num_pro_wins	gender
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
Phillipe Gilbert	BMC	Belgium	85	M
Robbie McKewen	Brooklyn	Austalia	55	M
Roger deVlaeminck	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 Results Window

B. *delete from riders where nationality = 'Belgium';*

C. *select * from riders;*

Command 8, Update rider Mark Renshaw to show number of wins = 30 in the riders table.

A. select * from riders;

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

C.   select * from riders;

SQL Client Application   — ☐ ✕

Connection Details

DB URL Properties: project3.properties

User Properties: client2.properties
root.properties

Username: root

Password: ••••••••

Connect   **Disconnect**

Enter SQL Command

select * from riders;

Clear SQL Command   **Execute SQL Command**

CONNECTED TO jdbc:mysql://localhost:3306/project3

SQL Execution Results Window

ridername	teamname	nationality	num_pro_wins	gender
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
Nicolas Roche	Cofidis	Ireland	8	M
Niki Sorensen	SaxoBank	Norway	32	M
Pauline Ferrand	Gitane	France	45	F

Clear Results Window

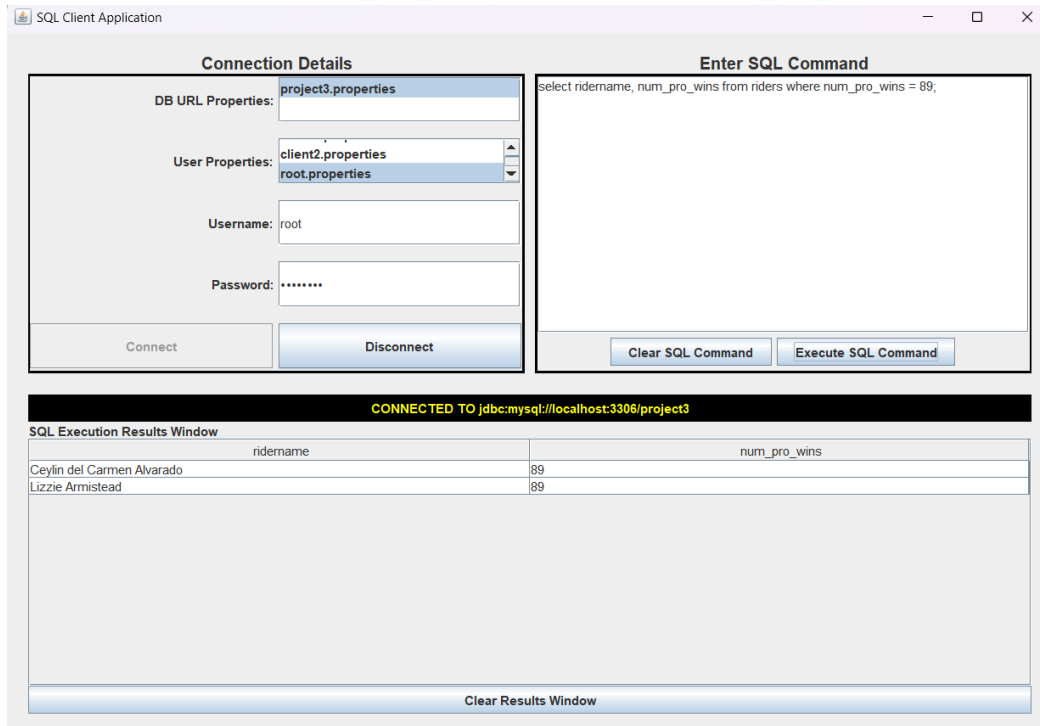Command 9, *Bad select command, This command is malformed and will not execute*
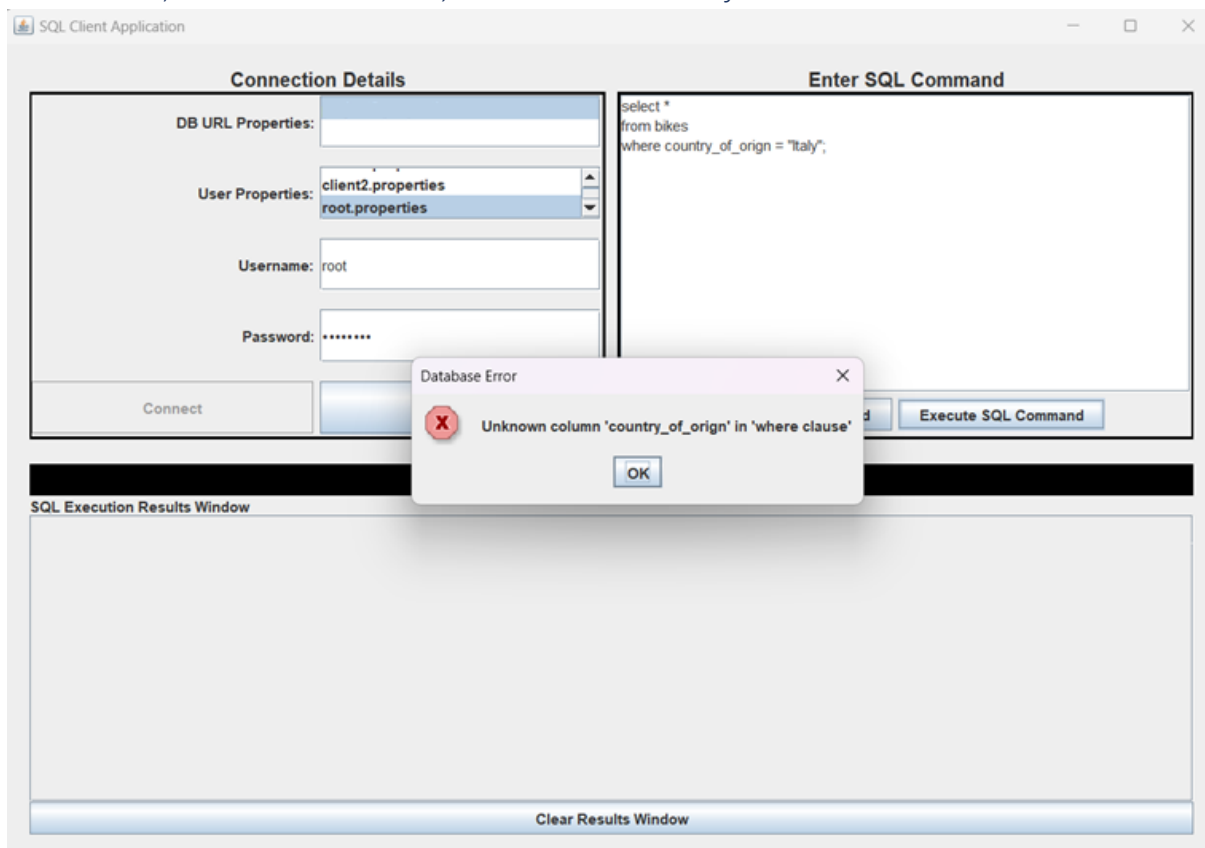
Command 10, Update and query

A. update rider Ceylin del Carmen Alvarado to show number of wins = 89 in the riders table.
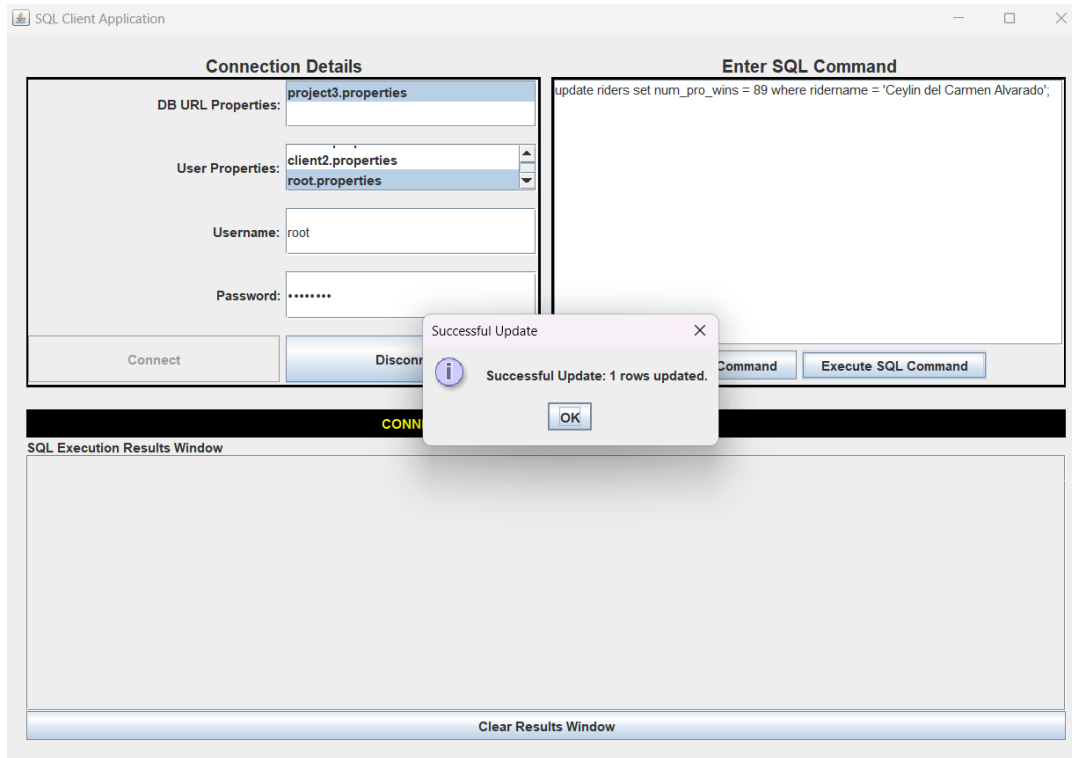
B. select ridername, num_pro_wins from riders where num_pro_wins = 89;

3. project3client1userscript.sql, 11 screenshots

Command 1,which rider won the World Championship- Elite Women in 2021?

Command 2, Delete all the riders from Norway from the riders table.

A. *select * from riders;*

B. *delete from riders where nationality = 'Norway';*

C. select * from riders;

SQL Client Application — □ ✕

Connection Details

DB URL Properties:
bikedb.properties
project3.properties

User Properties:
client1.properties
client2.properties

Username: client1

Password: •••••••

Connect | **Disconnect**

Enter SQL Command

select * from riders;

Clear SQL Command | **Execute SQL Command**

CONNECTED TO jdbc:mysql://localhost:3306/project3

SQL Execution Results 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 Alvarado	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	Schenker	Italy	34	F
Fabian Cancellara	SaxoBank	Switzerland	58	M
Fedor den Hertog	Acqua & Sapone	Netherlands	20	M
Filippo Ganna	Ineos	Italy	25	M

Clear Results Window

Command 3, Update rider Marianne Vos to show number of wins = 245 in the riders table.

A. *Selecting all riders*

B. *update riders set num_pro_wins = 245 where ridername = "Marianne Vos";*

C.   Selecting all riders

Command 4, Query: Which rider won the 2021 Tour de France?

Command 5, How many riders are there?

Command 6, updating command not valid for the client user

Command 7, How many races list Ceylin del Carmen Alvarado as the winner?

SQL Client Application	— □ ✕

Connection Details

DB URL Properties:
```
bikedb.properties
project3.properties
```

User Properties:
```
client1.properties
client2.properties
```

Username: client1

Password: •••••••

Connect	Disconnect

Enter SQL Command

```
select count(racename) as Ceylin_listed_as_winner from racewinners where ridername :
```

Clear SQL Command	Execute SQL Command

CONNECTED TO jdbc:mysql://localhost:3306/project3

SQL Execution Results Window

Ceylin_listed_as_winner
4

Clear Results Window

4. project3client2userscript.sql, 11 screenshots

Command 1, Query: Which rider won the World Cyclocross Championship- Elite Women in 2020?

Command 2, Delete all the riders from Italy from the riders table.

A. Select all riders

B. delete from riders where nationality ='Italy';

C.Select all riders

SQL Client Application   — □ ✕

Connection Details

DB URL Properties:
| bikedb.properties |
| **project3.properties** |

User Properties:
| client1.properties |
| **client2.properties** |

Username: client2

Password: ••••••

[Connect]   [**Disconnect**]

Enter SQL Command

select * from riders;

[**Clear SQL Command**] [**Execute SQL Command**]

CONNECTED TO jdbc:mysql://localhost:3306/project3

SQL Execution Results 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 Alvarado	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	Schenker	Italy	34	F
Fabian Cancellara	SaxoBank	Switzerland	58	M
Fedor den Hertog	Acqua & Sapone	Netherlands	20	M
Filippo Ganna	Ineos	Italy	25	M

[**Clear Results Window**]

Command 3, Update rider Annemeik van Vleuten to show number of wins = 210 in the riders table.

A. Select all riders

B. update riders set num_pro_wins = 210 where ridername = "Annemeik van Vleuten";

C.Select all riders

SQL Client Application — □ ✕

Connection Details

DB URL Properties:
bikedb.properties
project3.properties

User Properties:
client1.properties
client2.properties

Username: client2

Password: •••••••

Connect | **Disconnect**

Enter SQL Command

select * from riders;

Clear SQL Command | **Execute SQL Command**

CONNECTED TO jdbc:mysql://localhost:3306/project3

SQL Execution Results 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 Alvarado	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	Schenker	Italy	34	F
Fabian Cancellara	SaxoBank	Switzerland	58	M
Fedor den Hertog	Acqua & Sapone	Netherlands	20	M
Filippo Ganna	Ineos	Italy	25	M

Clear Results Window

Command 4, Query: Which rider won the 2021 Tour de France?

SQL Client Application — □ ✕

Connection Details

DB URL Properties:
bikedb.properties
project3.properties

User Properties:
client1.properties
client2.properties

Username: client2

Password: •••••••

Connect | **Disconnect**

Enter 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

SQL Execution Results Window

ridername
Tadej Pogacar

Command 5, How many riders are there?

Command 6, updating command is valid for client2 user

Command 7, How many races list Ceylin del Carmen Alvarado as the winner?

5. Accountant App Screenshots

Selecting number of queries for the root user from operationscount

Selecting all from opperationscount

Accountant Application

Accountant Application

Connection Details

DB URL Properties:	operationslog.properties
User Properties:	theaccountant.properties
Username:	theaccountant
Password:	••••••••••••

Connect	Disconnect

Enter SQL Command

```
select * from operationscount;
```

Clear SQL Command	Execute SQL Command

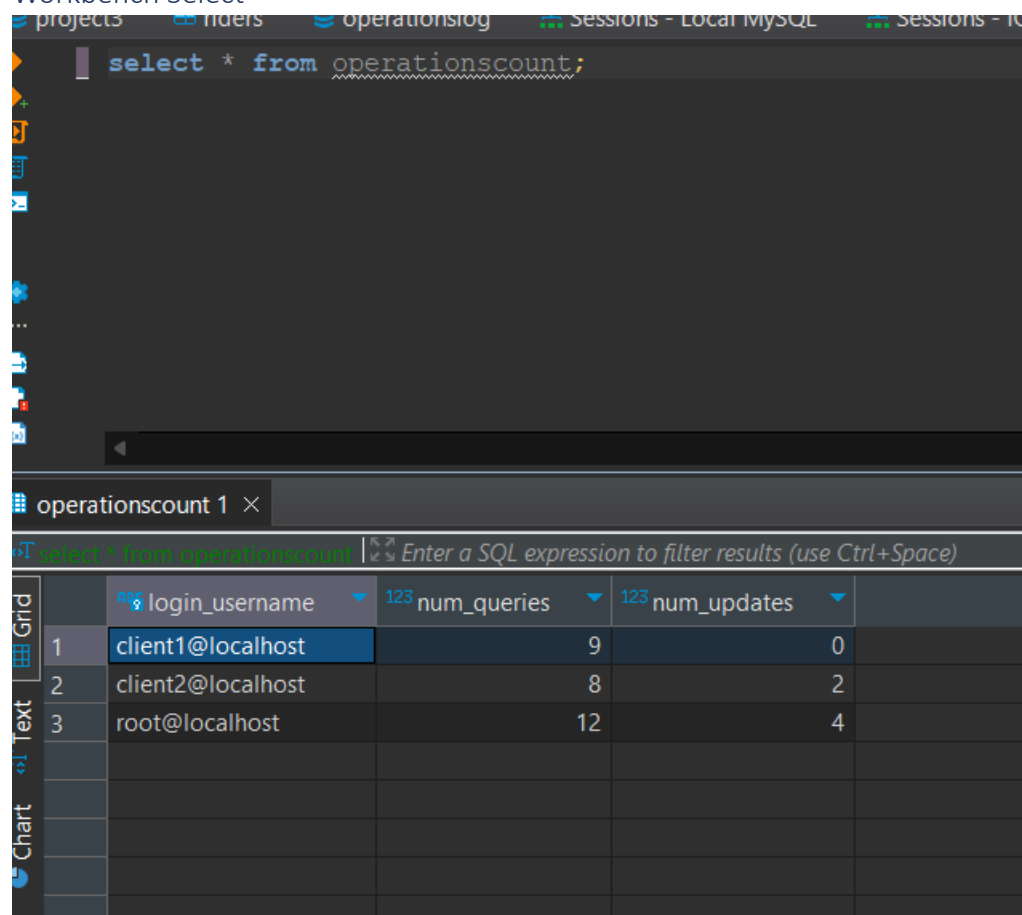**CONNECTED TO jdbc:mysql://localhost:3306/operationslog**

SQL Execution Results Window

login_username	num_queries	num_updates
client1@localhost	9	0
client2@localhost	8	2
root@localhost	12	4

Clear Results Window

Workbench Select

6. Bad Login Screenshots

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