

Name - Yash Lakhtariya

Enrollment number - 21162101012

Branch - CBA , Batch - 31

DBMS Practical 3

Institute of Computer Technology
B.Tech Computer Science and Engineering
Sub: Database Management System (2CSE301)

Practical-03 : Performing query based on SQL Where with And , Or, Not and Like Operator.

Scenario: Raj is developing an application which maintains all details of cricket. Raj wants to do analysis of matches based on different conditions and display the result.

Exercise:

Solve the following queries using the database given below

A) And ,Or , Not Query

1. Display all match details between Team India and England).

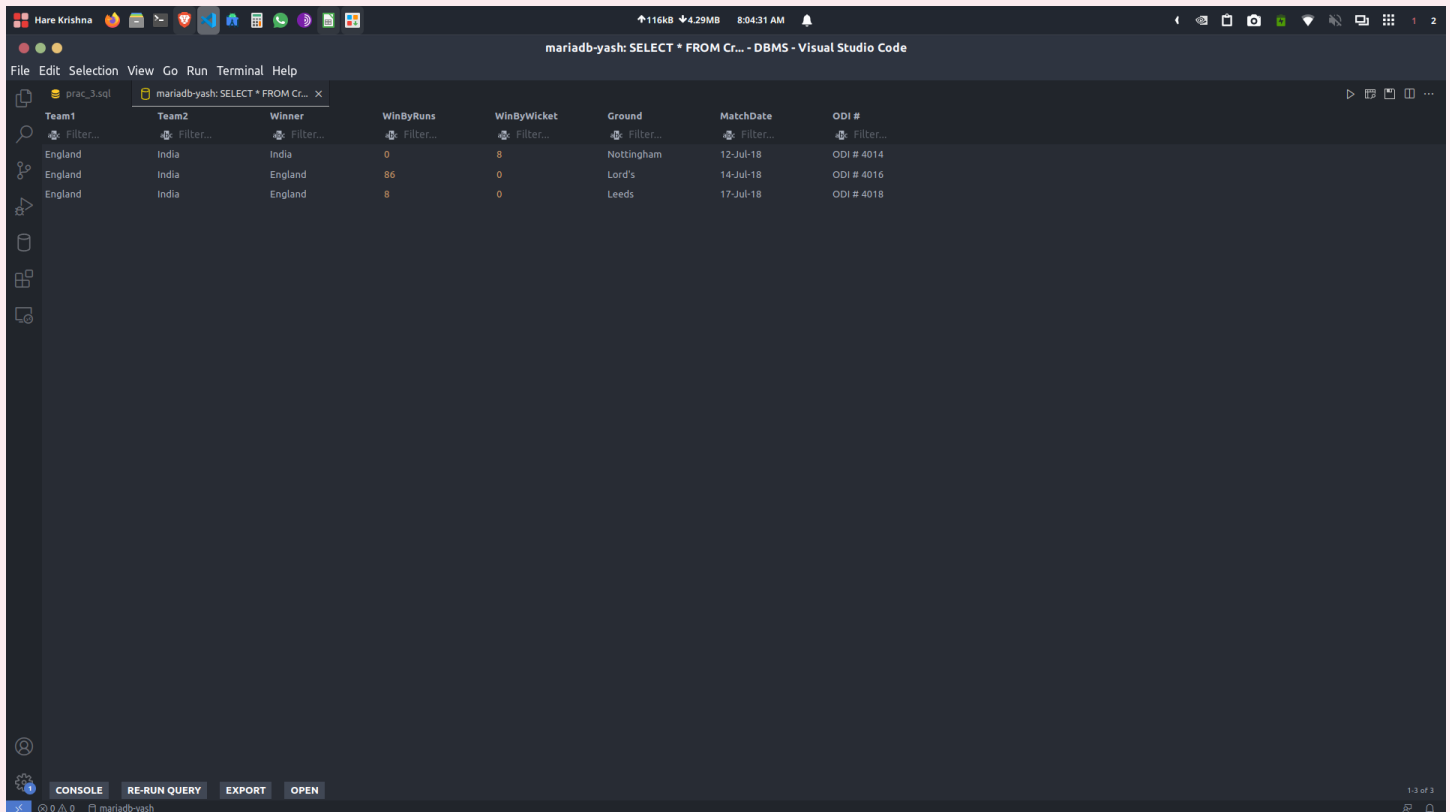
```
SELECT * FROM Cricket where (Team1="India" AND  
Team2="England") OR (Team1="England" AND  
Team2="India");
```

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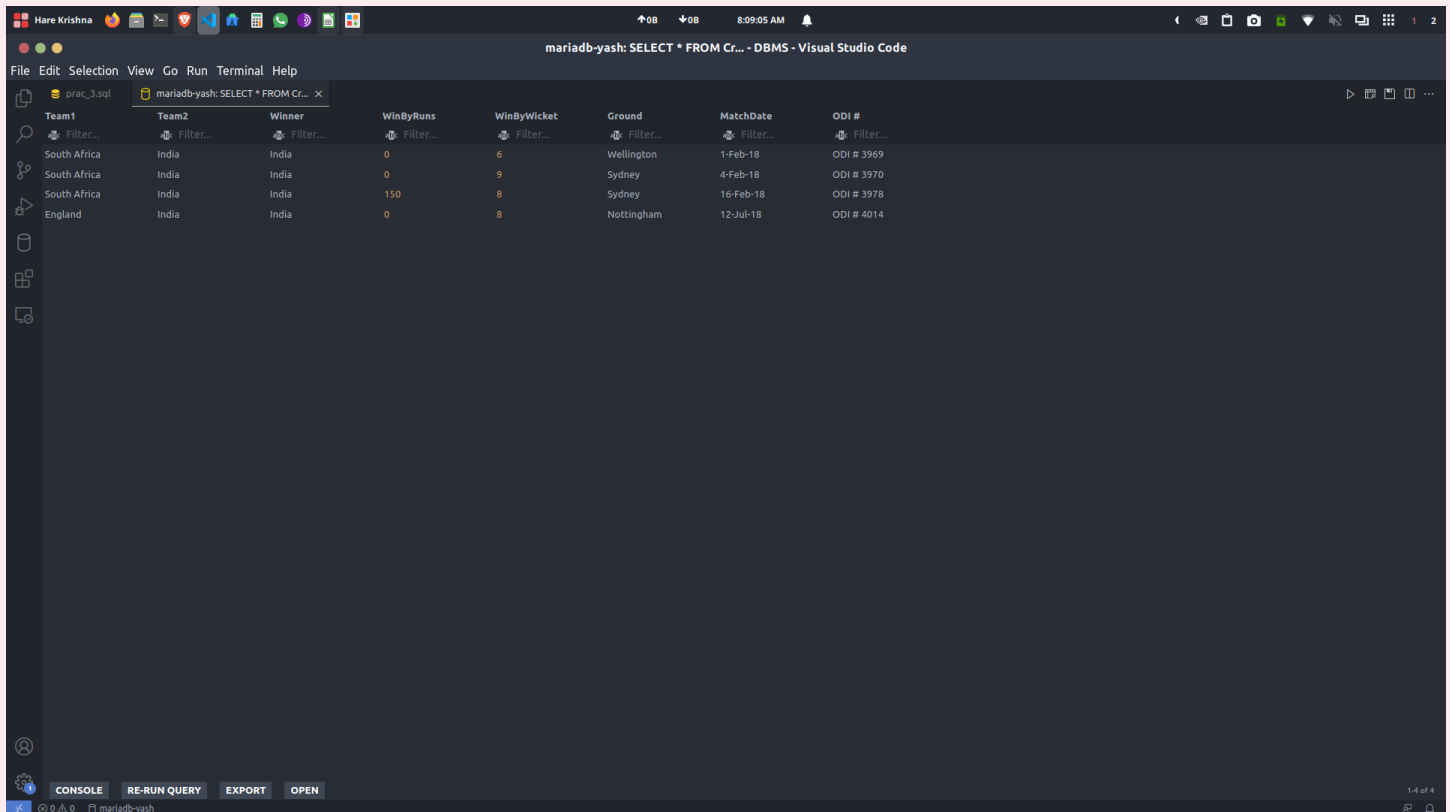
The screenshot shows the Visual Studio Code interface with a SQL query executed in the mariadb-yash database. The query is `SELECT * FROM Cricket`. The results are displayed in a table with the following columns: Team1, Team2, Winner, WinByRuns, WinByWicket, Ground, MatchDate, and ODI #. The table contains three rows of data.

Team1	Team2	Winner	WinByRuns	WinByWicket	Ground	MatchDate	ODI #
England	India	India	0	8	Nottingham	12-Jul-18	ODI # 4014
England	India	England	86	0	Lord's	14-Jul-18	ODI # 4016
England	India	England	8	0	Leeds	17-Jul-18	ODI # 4018

2. Display all match details when India win by more than 5 Wickets.

```
SELECT * FROM Cricket WHERE Winner="India" AND WinByWicket>5;
```

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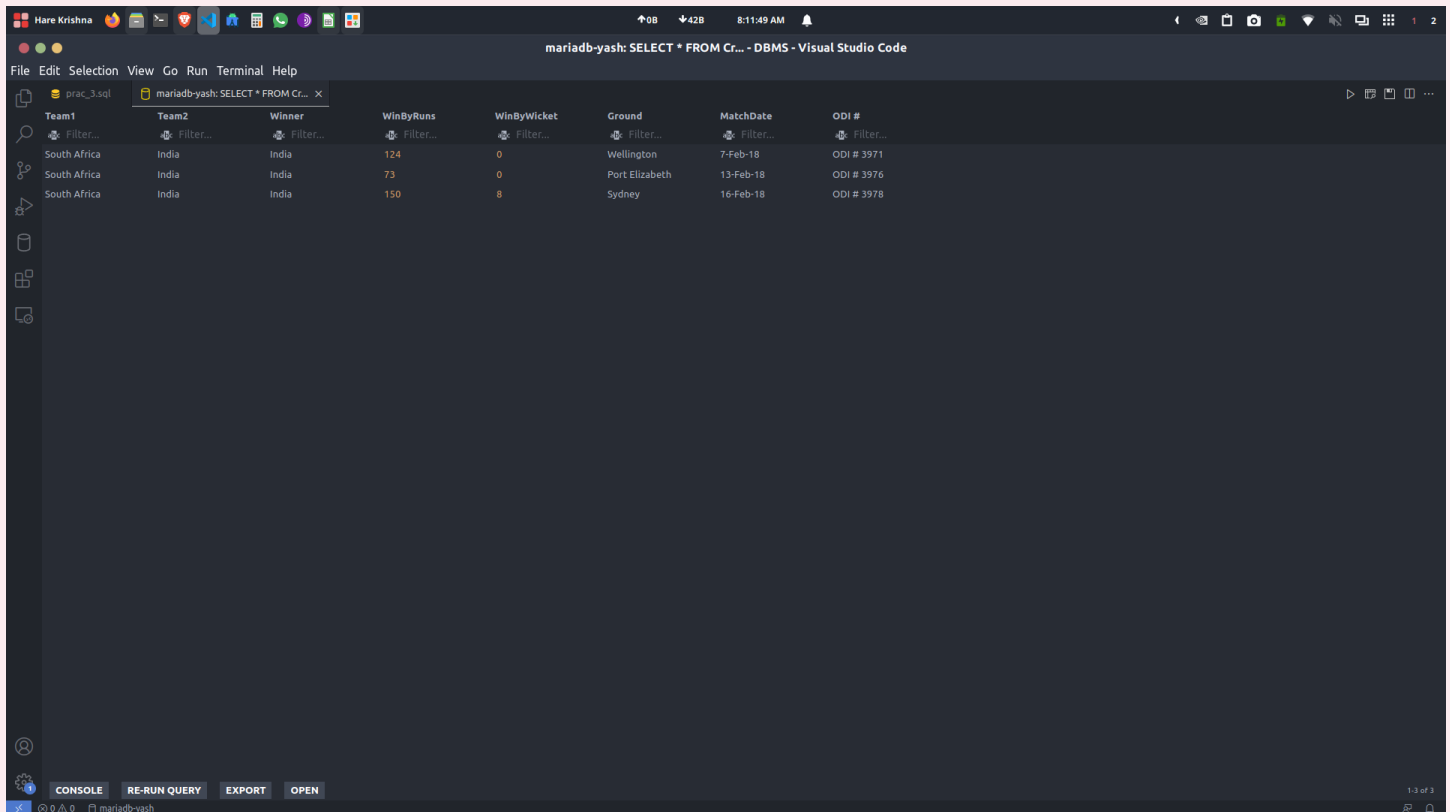
The screenshot shows the Visual Studio Code interface with a SQL query executed in the mariadb-yash database. The query is `SELECT * FROM Cricket`. The results are displayed in a table with 8 columns: Team1, Team2, Winner, WinByRuns, WinByWicket, Ground, MatchDate, and ODI #. The table contains 4 rows of data.

Team1	Team2	Winner	WinByRuns	WinByWicket	Ground	MatchDate	ODI #
South Africa	India	India	0	6	Wellington	1-Feb-18	ODI # 3969
South Africa	India	India	0	9	Sydney	4-Feb-18	ODI # 3970
South Africa	India	India	150	8	Sydney	16-Feb-18	ODI # 3978
England	India	India	0	8	Nottingham	12-Jul-18	ODI # 4014

3. Display all match details when India win by more than 50 runs.

```
SELECT * FROM Cricket WHERE Winner="India" AND WinByRuns>50;
```

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The screenshot shows the Visual Studio Code interface with a SQL query result table. The table has 8 columns: Team1, Team2, Winner, WinByRuns, WinByWicket, Ground, MatchDate, and ODI #. The data is as follows:

Team1	Team2	Winner	WinByRuns	WinByWicket	Ground	MatchDate	ODI #
South Africa	India	India	124	0	Wellington	7-Feb-18	ODI # 3971
South Africa	India	India	73	0	Port Elizabeth	13-Feb-18	ODI # 3976
South Africa	India	India	150	8	Sydney	16-Feb-18	ODI # 3978

4. Display name of Ground where Australia wins by more than 50 runs.

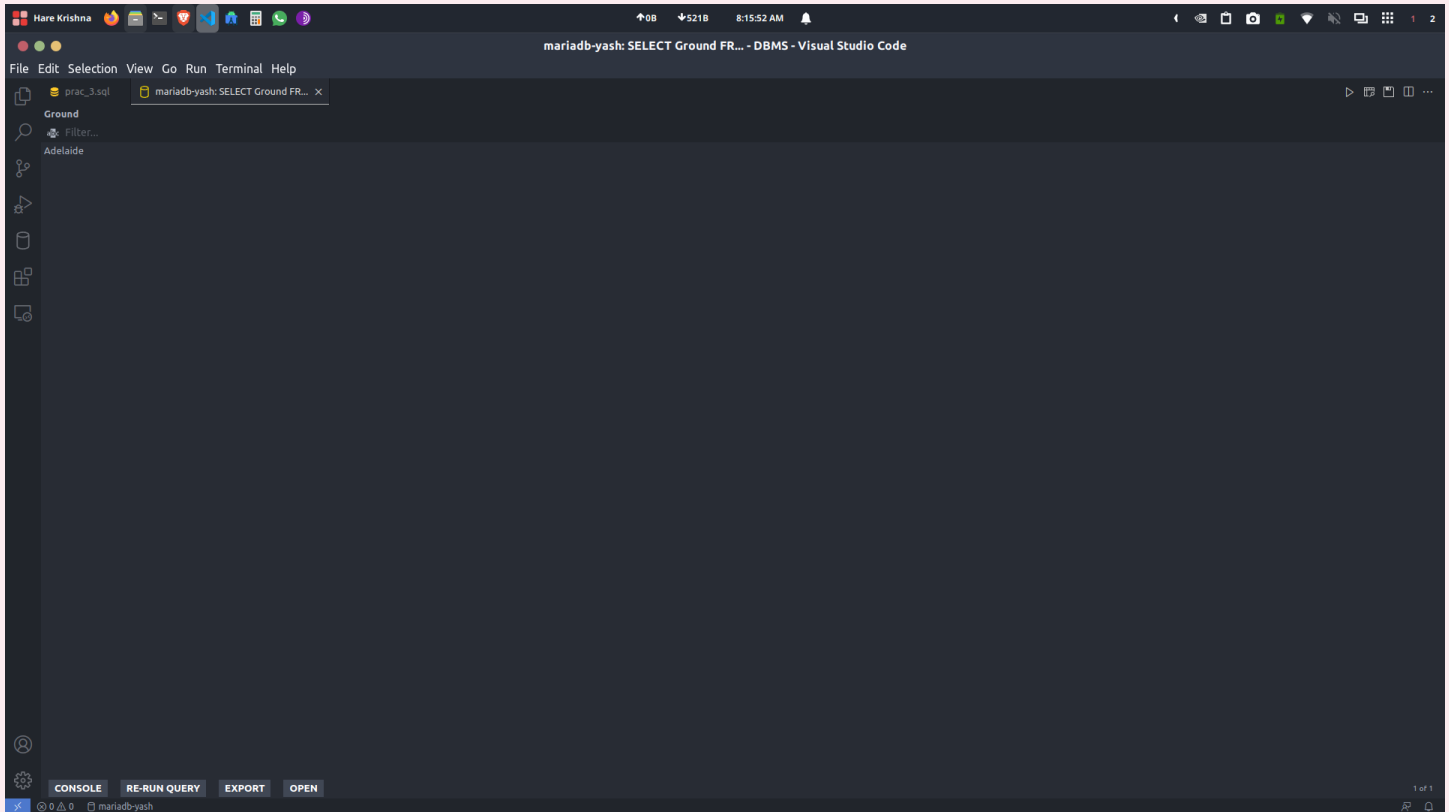
```
SELECT Ground FROM Cricket WHERE Winner = "Australia"
AND WinByRuns > 50;
```

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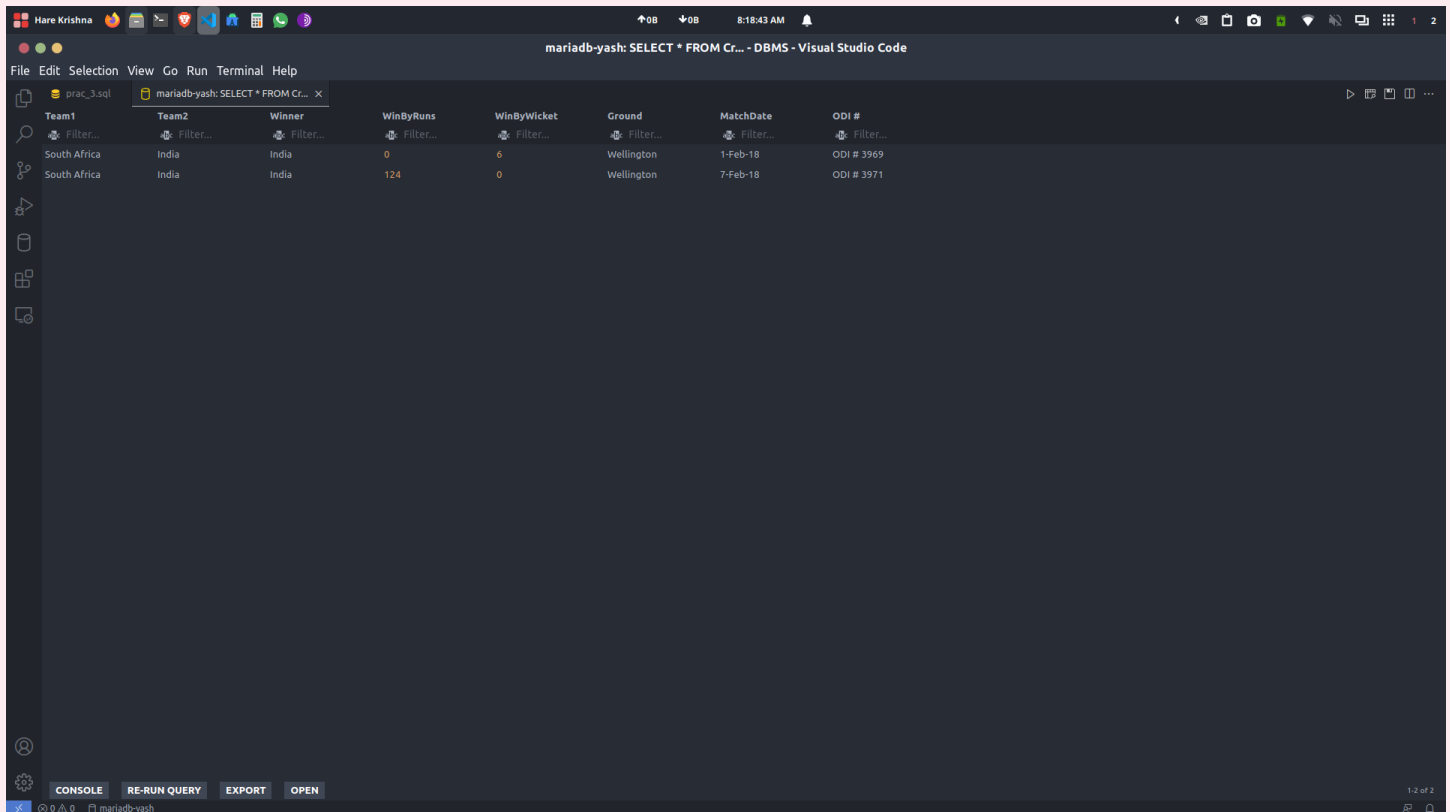
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5. Display all match details where India played on Wellington(Durban) Ground.

```
SELECT * FROM Cricket WHERE Team1 = "india" OR Team2  
= "India" AND Ground = "Wellington";
```

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The screenshot shows the Visual Studio Code interface with a SQL query executed in the mariadb-yash database. The query is `SELECT * FROM Cr...`. The results are displayed in a table with the following columns: Team1, Team2, Winner, WinByRuns, WinByWicket, Ground, MatchDate, and ODI #. The table contains two rows of data.

Team1	Team2	Winner	WinByRuns	WinByWicket	Ground	MatchDate	ODI #
South Africa	India	India	0	6	Wellington	1-Feb-18	ODI # 3969
South Africa	India	India	124	0	Wellington	7-Feb-18	ODI # 3971

6. Display all match details where India played on Sydney(centurion) Ground and win.

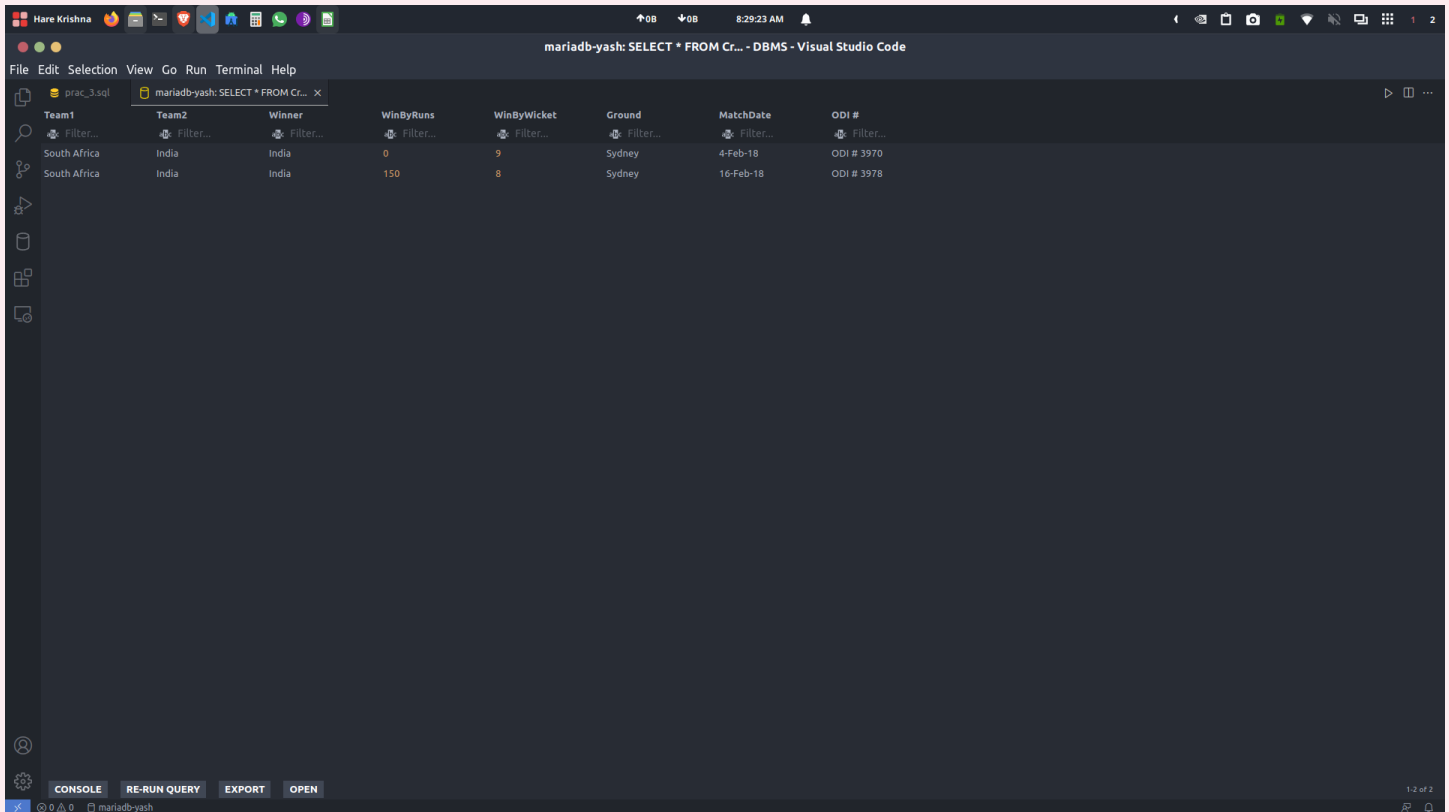
```
SELECT * FROM Cricket WHERE Winner = "India" AND Ground = "Sydney";
```

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The screenshot shows the Visual Studio Code interface with a SQL query result displayed in a table. The table has 8 columns: Team1, Team2, Winner, WinByRuns, WinByWicket, Ground, MatchDate, and ODI #. The data is as follows:

Team1	Team2	Winner	WinByRuns	WinByWicket	Ground	MatchDate	ODI #
South Africa	India	India	0	9	Sydney	4-Feb-18	ODI # 3970
South Africa	India	India	150	8	Sydney	16-Feb-18	ODI # 3978

7. Display all match details played on Sydney Ground and match win by more than 3 wickets or 50 runs.

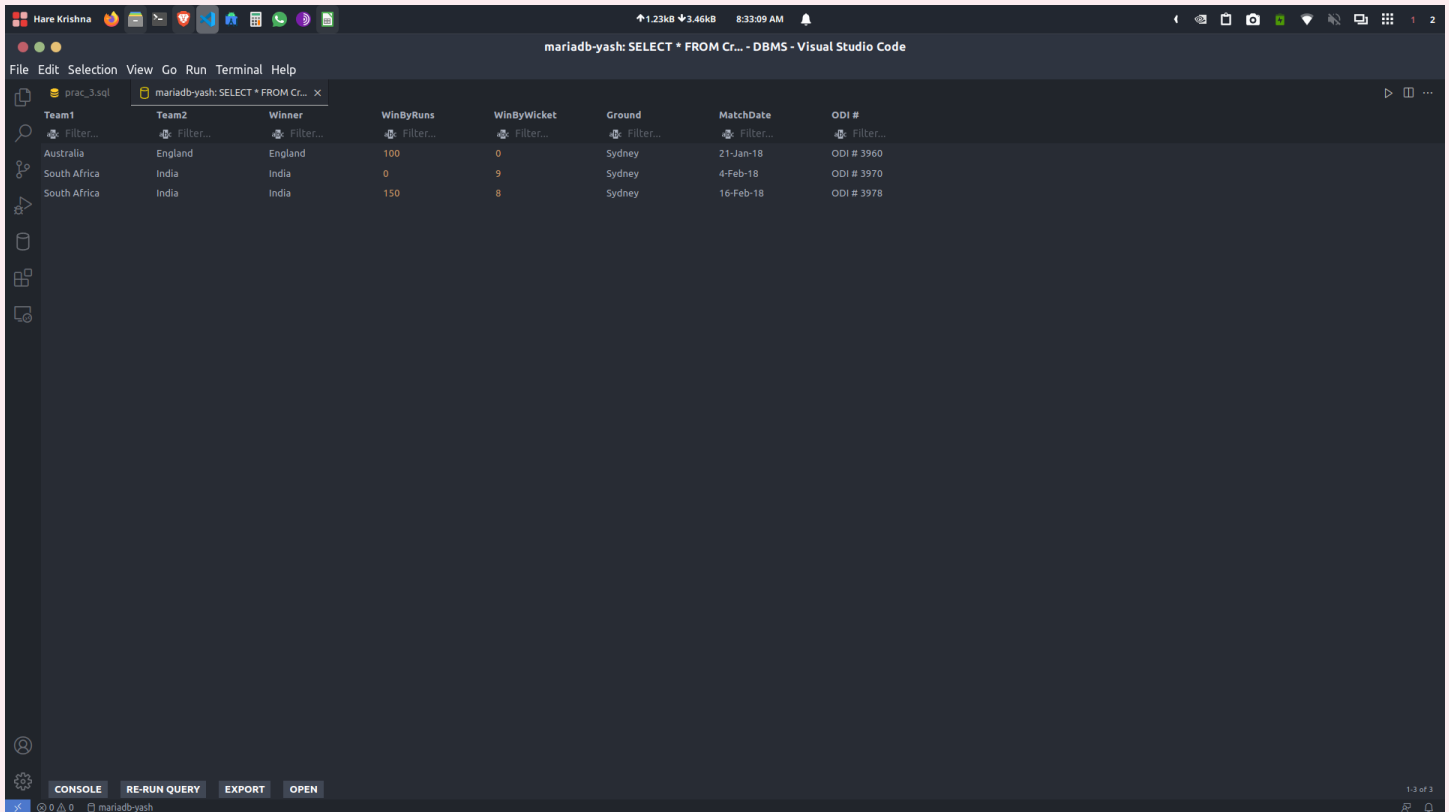
```
SELECT * FROM Cricket WHERE Ground = "Sydney" AND  
(WinByWicket > 3 OR WinByRuns > 50);
```

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The screenshot shows a Visual Studio Code window with a file named 'pract_3.sql' open. The code contains a SQL query: 'SELECT * FROM Cricket'. Below the code editor, a table of cricket match details is displayed. The table has 8 columns: Team1, Team2, Winner, WinByRuns, WinByWicket, Ground, MatchDate, and ODI #. The data is as follows:

Team1	Team2	Winner	WinByRuns	WinByWicket	Ground	MatchDate	ODI #
Australia	England	England	100	0	Sydney	21-Jan-18	ODI # 3960
South Africa	India	India	0	9	Sydney	4-Feb-18	ODI # 3970
South Africa	India	India	150	8	Sydney	16-Feb-18	ODI # 3978

8. Display all match details India win by more than 50 runs margin or more than 5 Wickets.

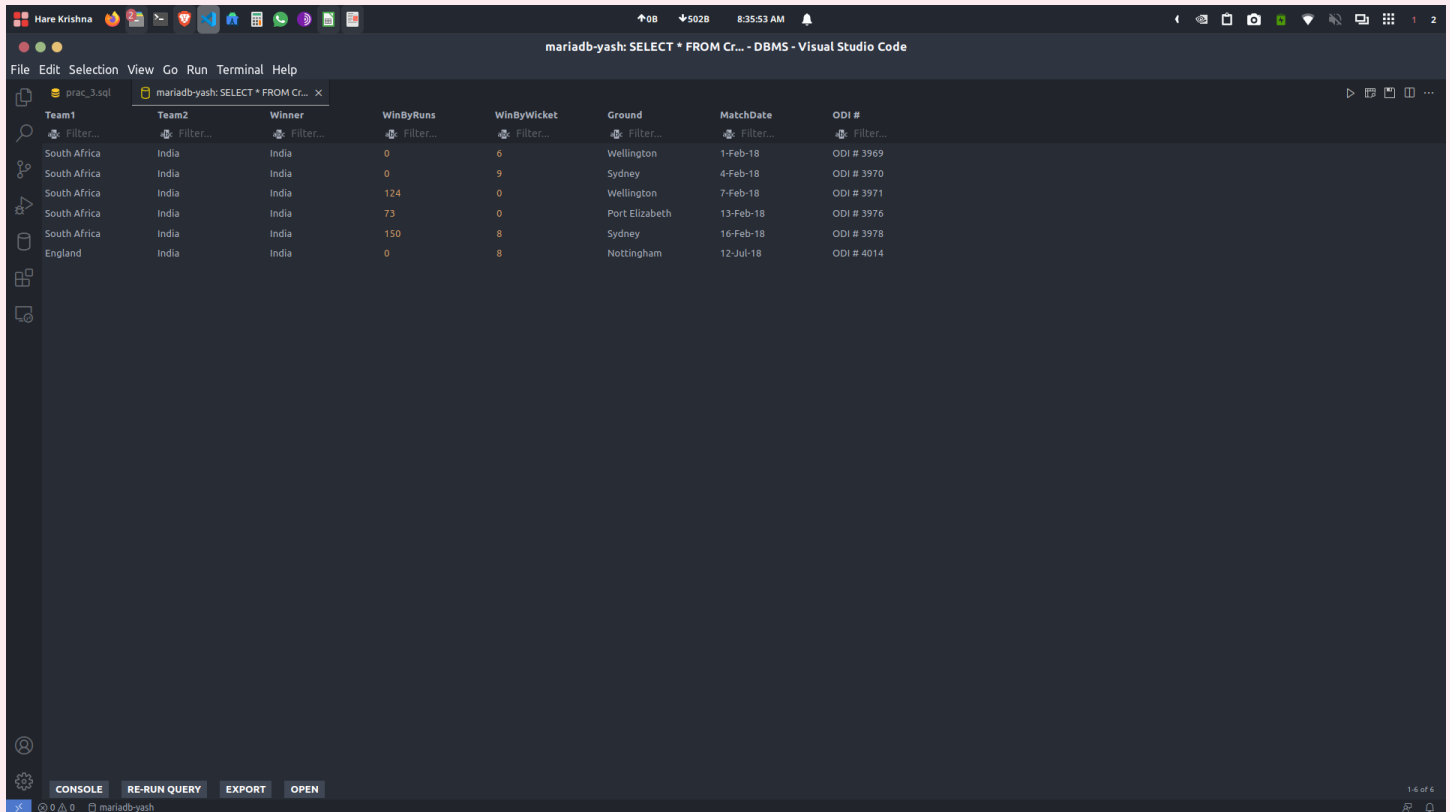
```
SELECT * FROM Cricket WHERE Winner = "India" AND (WinByRuns > 50 or WinByWicket > 5);
```


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The screenshot shows a Visual Studio Code window with a table of cricket match data. The table has 8 columns: Team1, Team2, Winner, WinByRuns, WinByWicket, Ground, MatchDate, and ODI #. The data is as follows:

Team1	Team2	Winner	WinByRuns	WinByWicket	Ground	MatchDate	ODI #
South Africa	India	India	0	6	Wellington	1-Feb-18	ODI # 3969
South Africa	India	India	0	9	Sydney	4-Feb-18	ODI # 3970
South Africa	India	India	124	0	Wellington	7-Feb-18	ODI # 3971
South Africa	India	India	73	0	Port Elizabeth	13-Feb-18	ODI # 3976
South Africa	India	India	150	8	Sydney	16-Feb-18	ODI # 3978
England	India	India	0	8	Nottingham	12-Jul-18	ODI # 4014

9. Display name of Ground where India lost match.

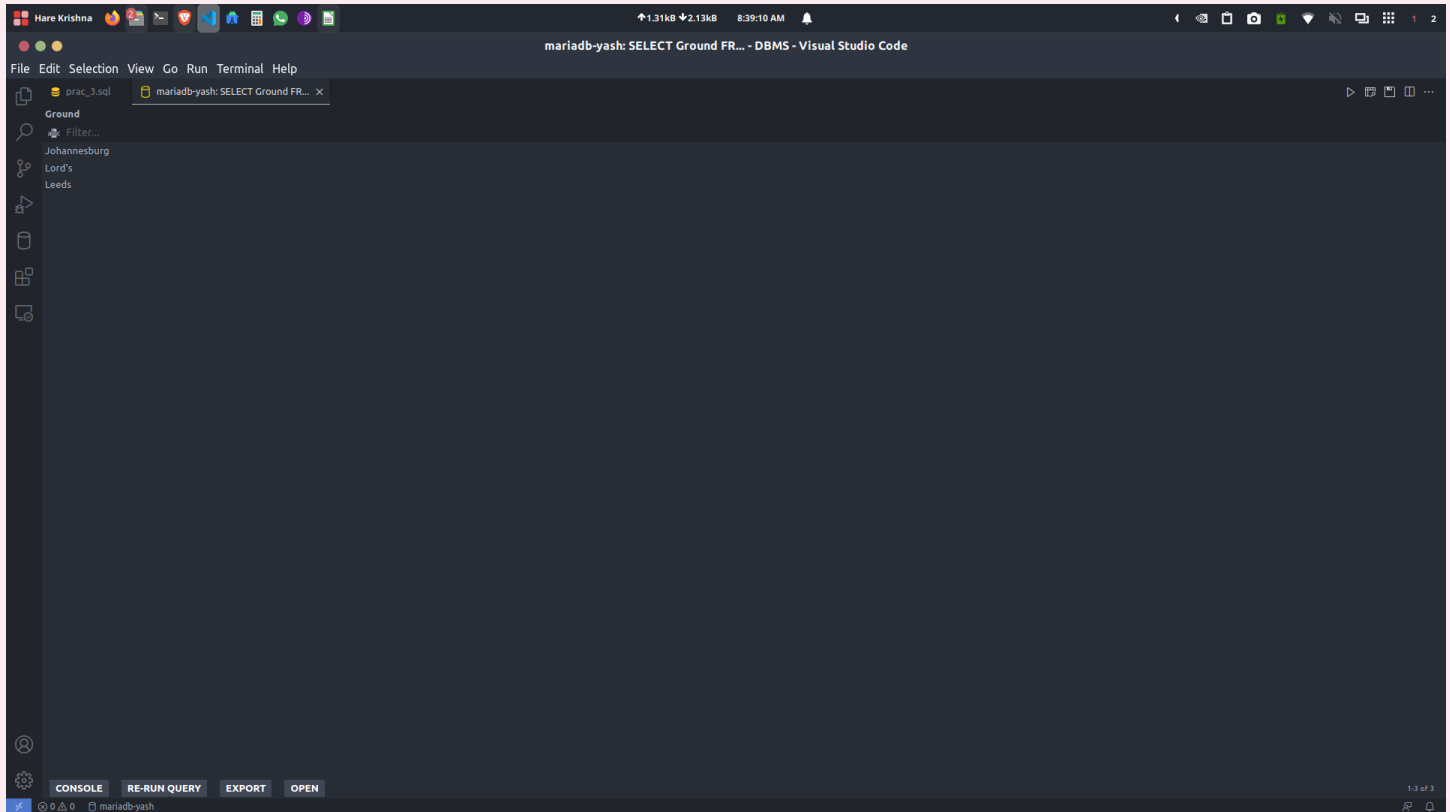
```
SELECT Ground FROM Cricket WHERE (Team1="India" OR Team2="India")  
AND Winner <> "India";
```

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10.Display all match details where India and Australia win.

```
SELECT * FROM Cricket WHERE Winner = "India" OR Winner = "Australia";
```

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Visual Studio Code interface showing a table of cricket match details. The table is titled "mariadb-yash: SELECT * FROM Cr..." and contains the following data:

Team1	Team2	Winner	WinByRuns	WinByWicket	Ground	MatchDate	ODI #
Australia	England	Australia	100	3	Adelaide	26-Jan-18	ODI # 3966
South Africa	India	India	0	6	Wellington	1-Feb-18	ODI # 3969
South Africa	India	India	0	9	Sydney	4-Feb-18	ODI # 3970
South Africa	India	India	124	0	Wellington	7-Feb-18	ODI # 3971
South Africa	India	India	73	0	Port Elizabeth	13-Feb-18	ODI # 3976
South Africa	India	India	150	8	Sydney	16-Feb-18	ODI # 3978
England	India	India	0	8	Nottingham	12-Jul-18	ODI # 4014
Hong Kong	India	India	26	0	Dubai (DSC)	18-Sep-18	ODI # 4039

11.Display all match details where India and Australia win by more than 100 runs.

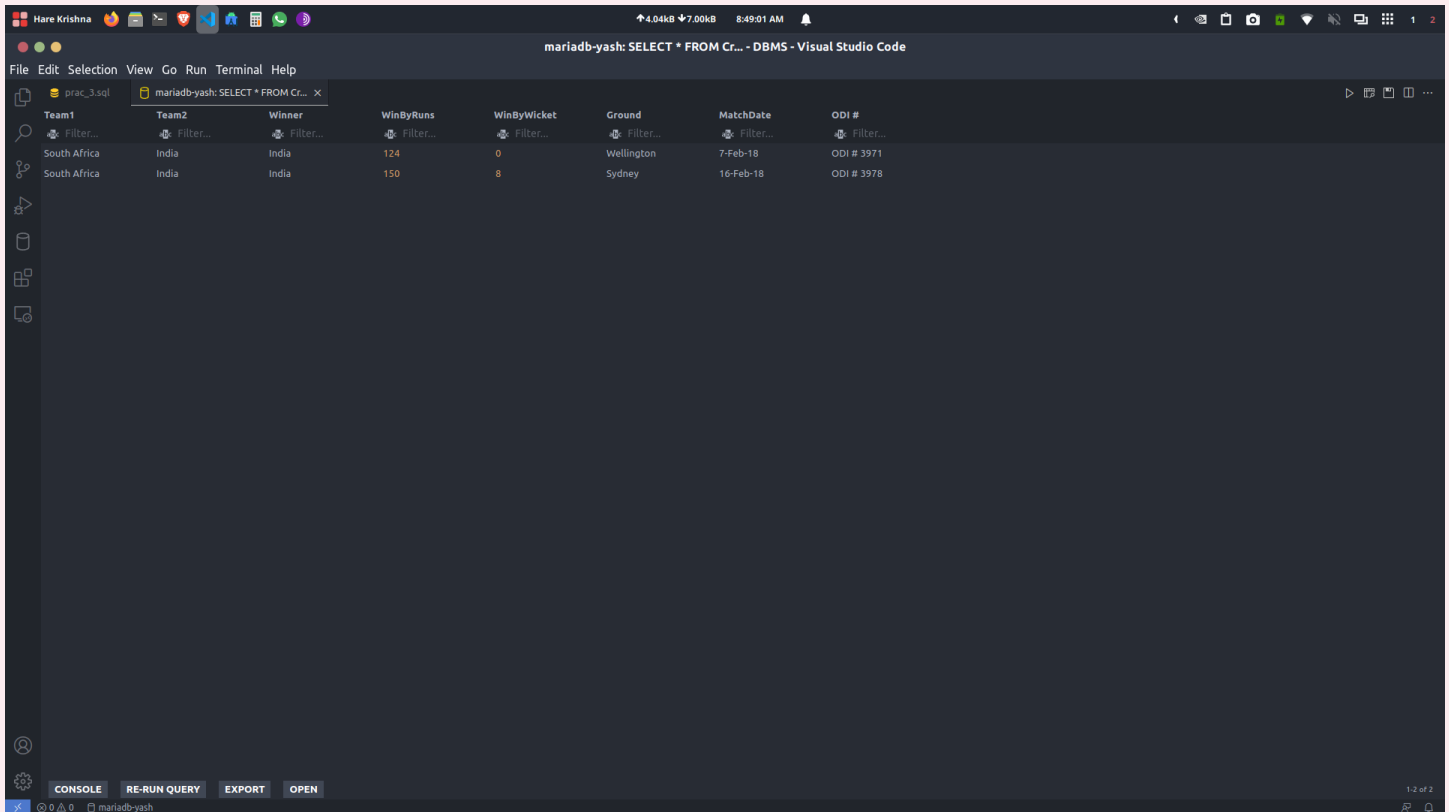
```
SELECT * FROM Cricket WHERE (Winner = "India" OR Winner = "Australia") AND WinByRuns > 100;
```

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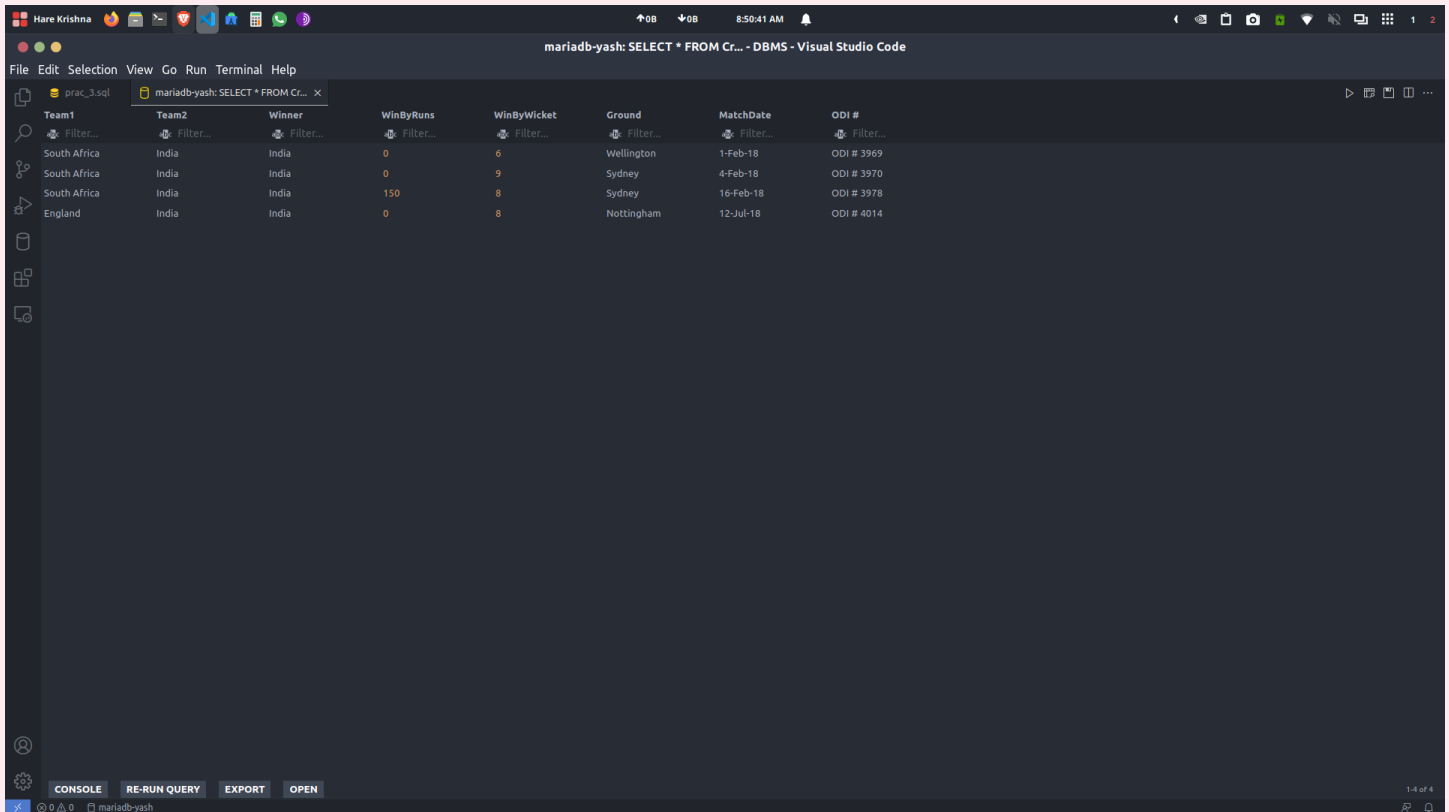
The screenshot shows the Visual Studio Code interface with a SQL query executed in the mariadb-yash database. The query is `SELECT * FROM Cricket`. The results are displayed in a table with the following columns: Team1, Team2, Winner, WinByRuns, WinByWicket, Ground, MatchDate, and ODI #. The table contains two rows of data.

Team1	Team2	Winner	WinByRuns	WinByWicket	Ground	MatchDate	ODI #
South Africa	India	India	124	0	Wellington	7-Feb-18	ODI # 3971
South Africa	India	India	150	8	Sydney	16-Feb-18	ODI # 3978

12.Display all match details where India and Australia win by more than 5 wickets.

```
SELECT * FROM Cricket WHERE (Winner = "India" or Winner = "Australia")  
AND WinByWicket > 5;
```

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The screenshot shows the Visual Studio Code interface with a SQL query result displayed in a table. The query is `SELECT * FROM Cr...`. The table has 8 columns: Team1, Team2, Winner, WinByRuns, WinByWicket, Ground, MatchDate, and ODI #. The data is as follows:

Team1	Team2	Winner	WinByRuns	WinByWicket	Ground	MatchDate	ODI #
South Africa	India	India	0	6	Wellington	1-Feb-18	ODI # 3969
South Africa	India	India	0	9	Sydney	4-Feb-18	ODI # 3970
South Africa	India	India	150	8	Sydney	16-Feb-18	ODI # 3978
England	India	India	0	8	Nottingham	12-Jul-18	ODI # 4014

13.Display all matches win by more than 100 runs or 5 Wickets.

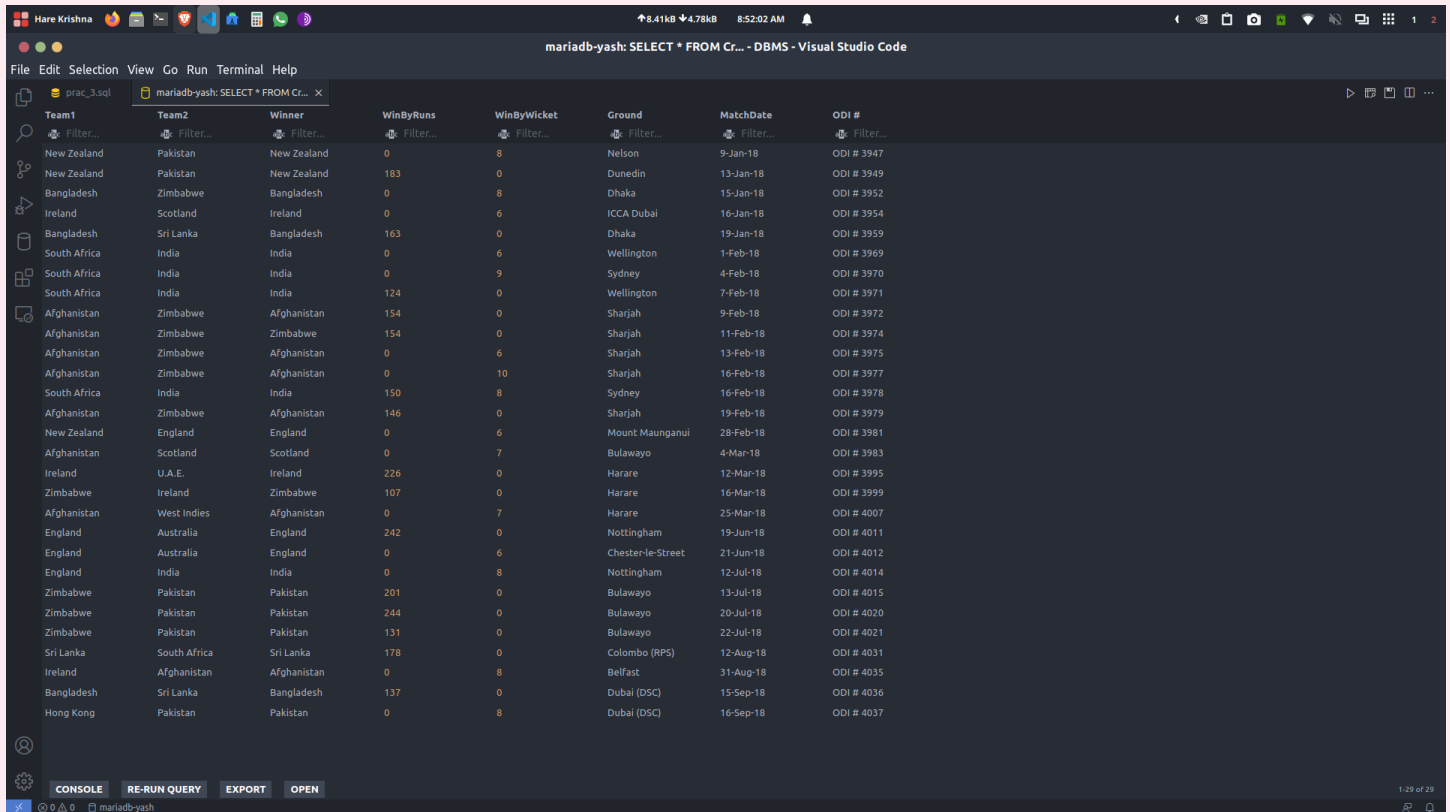
```
SELECT * FROM Cricket WHERE WinByRuns > 100 OR WinByWicket > 5;
```

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The screenshot shows a Visual Studio Code window with a SQL query executed in a database. The query is `SELECT * FROM Cr...`. The results are displayed in a table with 8 columns: Team1, Team2, Winner, WinByRuns, WinByWicket, Ground, MatchDate, and ODI #. The table contains 30 rows of data representing cricket matches.

Team1	Team2	Winner	WinByRuns	WinByWicket	Ground	MatchDate	ODI #
New Zealand	Pakistan	New Zealand	0	8	Nelson	9-Jan-18	ODI # 3947
New Zealand	Pakistan	New Zealand	183	0	Dunedin	13-Jan-18	ODI # 3949
Bangladesh	Zimbabwe	Bangladesh	0	8	Dhaka	15-Jan-18	ODI # 3952
Ireland	Scotland	Ireland	0	6	ICCA Dubai	16-Jan-18	ODI # 3954
Bangladesh	Sri Lanka	Bangladesh	163	0	Dhaka	19-Jan-18	ODI # 3959
South Africa	India	India	0	6	Wellington	1-Feb-18	ODI # 3969
South Africa	India	India	0	9	Sydney	4-Feb-18	ODI # 3970
South Africa	India	India	124	0	Wellington	7-Feb-18	ODI # 3971
Afghanistan	Zimbabwe	Afghanistan	154	0	Sharjah	9-Feb-18	ODI # 3972
Afghanistan	Zimbabwe	Zimbabwe	154	0	Sharjah	11-Feb-18	ODI # 3974
Afghanistan	Zimbabwe	Afghanistan	0	6	Sharjah	13-Feb-18	ODI # 3975
Afghanistan	Zimbabwe	Afghanistan	0	10	Sharjah	16-Feb-18	ODI # 3977
South Africa	India	India	150	8	Sydney	16-Feb-18	ODI # 3978
Afghanistan	Zimbabwe	Afghanistan	146	0	Sharjah	19-Feb-18	ODI # 3979
New Zealand	England	England	0	6	Mount Maunganui	28-Feb-18	ODI # 3981
Afghanistan	Scotland	Scotland	0	7	Bulawayo	4-Mar-18	ODI # 3983
Ireland	U.A.E.	Ireland	226	0	Harare	12-Mar-18	ODI # 3995
Zimbabwe	Ireland	Zimbabwe	107	0	Harare	16-Mar-18	ODI # 3999
Afghanistan	West Indies	Afghanistan	0	7	Harare	25-Mar-18	ODI # 4007
England	Australia	England	242	0	Nottingham	19-Jun-18	ODI # 4011
England	Australia	England	0	6	Chester-le-Street	21-Jun-18	ODI # 4012
England	India	India	0	8	Nottingham	12-Jul-18	ODI # 4014
Zimbabwe	Pakistan	Pakistan	201	0	Bulawayo	13-Jul-18	ODI # 4015
Zimbabwe	Pakistan	Pakistan	244	0	Bulawayo	20-Jul-18	ODI # 4020
Zimbabwe	Pakistan	Pakistan	131	0	Bulawayo	22-Jul-18	ODI # 4021
Sri Lanka	South Africa	Sri Lanka	178	0	Colombo (RPS)	12-Aug-18	ODI # 4031
Ireland	Afghanistan	Afghanistan	0	8	Belfast	31-Aug-18	ODI # 4035
Bangladesh	Sri Lanka	Bangladesh	137	0	Dubai (DSC)	15-Sep-18	ODI # 4036
Hong Kong	Pakistan	Pakistan	0	8	Dubai (DSC)	16-Sep-18	ODI # 4037

B) Like Query

1. Display Details of all matches where Ground name start with 'S'.

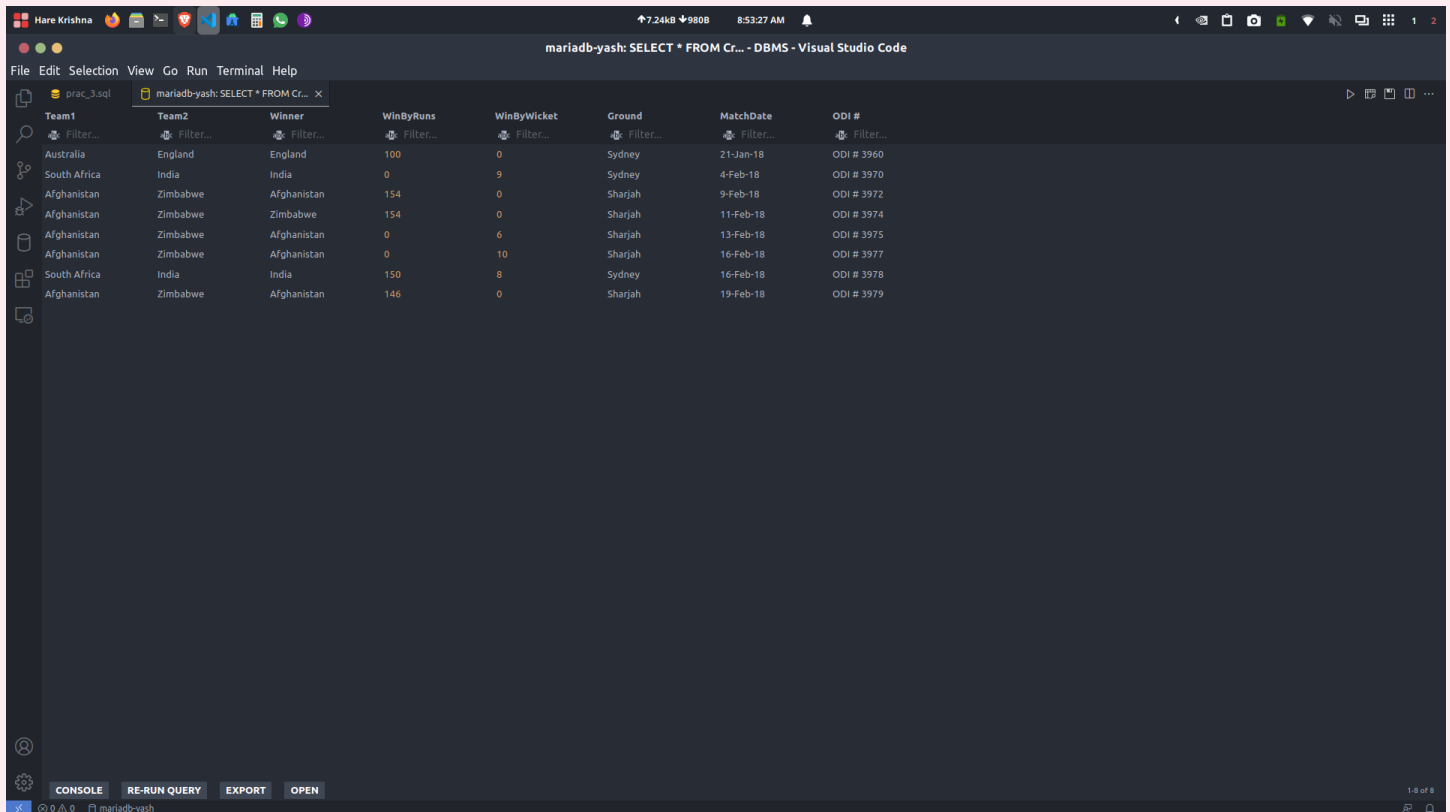
```
SELECT * FROM Cricket WHERE Ground like "S%";
```

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The screenshot shows a Visual Studio Code window with a SQL query result displayed in a table. The query is `SELECT * FROM Cricket`. The table has 8 columns: Team1, Team2, Winner, WinByRuns, WinByWicket, Ground, MatchDate, and ODI #. The data is as follows:

Team1	Team2	Winner	WinByRuns	WinByWicket	Ground	MatchDate	ODI #
Australia	England	England	100	0	Sydney	21-Jan-18	ODI # 3960
South Africa	India	India	0	9	Sydney	4-Feb-18	ODI # 3970
Afghanistan	Zimbabwe	Afghanistan	154	0	Sharjah	9-Feb-18	ODI # 3972
Afghanistan	Zimbabwe	Zimbabwe	154	0	Sharjah	11-Feb-18	ODI # 3974
Afghanistan	Zimbabwe	Afghanistan	0	6	Sharjah	13-Feb-18	ODI # 3975
Afghanistan	Zimbabwe	Afghanistan	0	10	Sharjah	16-Feb-18	ODI # 3977
South Africa	India	India	150	8	Sydney	16-Feb-18	ODI # 3978
Afghanistan	Zimbabwe	Afghanistan	146	0	Sharjah	19-Feb-18	ODI # 3979

2. Display Details of all matches where Ground name start with 'S' or start with 'D'.

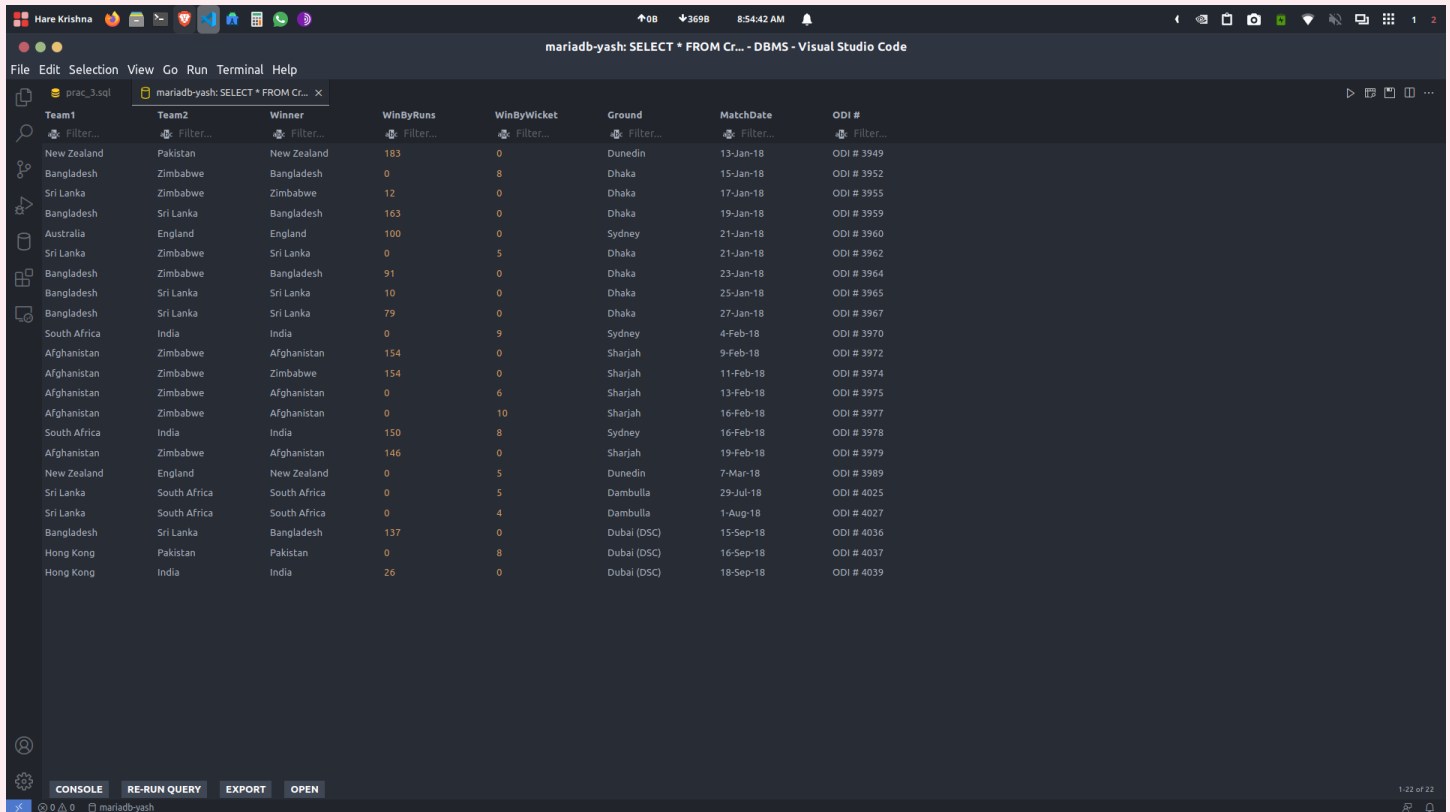
```
SELECT * FROM Cricket WHERE Ground like "S%" OR Ground like "D%";
```

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The screenshot shows a Visual Studio Code window with a SQL query executed in a database. The query is `SELECT * FROM Cr...`. The result is displayed in a table with 8 columns: Team1, Team2, Winner, WinByRuns, WinByWicket, Ground, MatchDate, and ODI #. The table contains 20 rows of cricket match data.

Team1	Team2	Winner	WinByRuns	WinByWicket	Ground	MatchDate	ODI #
New Zealand	Pakistan	New Zealand	183	0	Dunedin	13-Jan-18	ODI # 3949
Bangladesh	Zimbabwe	Bangladesh	0	8	Dhaka	15-Jan-18	ODI # 3952
Sri Lanka	Zimbabwe	Zimbabwe	12	0	Dhaka	17-Jan-18	ODI # 3955
Bangladesh	Sri Lanka	Bangladesh	163	0	Dhaka	19-Jan-18	ODI # 3959
Australia	England	England	100	0	Sydney	21-Jan-18	ODI # 3960
Sri Lanka	Zimbabwe	Sri Lanka	0	5	Dhaka	21-Jan-18	ODI # 3962
Bangladesh	Zimbabwe	Bangladesh	91	0	Dhaka	23-Jan-18	ODI # 3964
Bangladesh	Sri Lanka	Sri Lanka	10	0	Dhaka	25-Jan-18	ODI # 3965
Bangladesh	Sri Lanka	Sri Lanka	79	0	Dhaka	27-Jan-18	ODI # 3967
South Africa	India	India	0	9	Sydney	4-Feb-18	ODI # 3970
Afghanistan	Zimbabwe	Afghanistan	154	0	Sharjah	9-Feb-18	ODI # 3972
Afghanistan	Zimbabwe	Zimbabwe	154	0	Sharjah	11-Feb-18	ODI # 3974
Afghanistan	Zimbabwe	Afghanistan	0	6	Sharjah	13-Feb-18	ODI # 3975
Afghanistan	Zimbabwe	Afghanistan	0	10	Sharjah	16-Feb-18	ODI # 3977
South Africa	India	India	150	8	Sydney	16-Feb-18	ODI # 3978
Afghanistan	Zimbabwe	Afghanistan	146	0	Sharjah	19-Feb-18	ODI # 3979
New Zealand	England	New Zealand	0	5	Dunedin	7-Mar-18	ODI # 3989
Sri Lanka	South Africa	South Africa	0	5	Dambulla	29-Jul-18	ODI # 4025
Sri Lanka	South Africa	South Africa	0	4	Dambulla	1-Aug-18	ODI # 4027
Bangladesh	Sri Lanka	Bangladesh	137	0	Dubai (DSC)	15-Sep-18	ODI # 4036
Hong Kong	Pakistan	Pakistan	0	8	Dubai (DSC)	16-Sep-18	ODI # 4037
Hong Kong	India	India	26	0	Dubai (DSC)	18-Sep-18	ODI # 4039

3. Display name of winner team and margin where Ground name start with 'S' and end with 'Y'

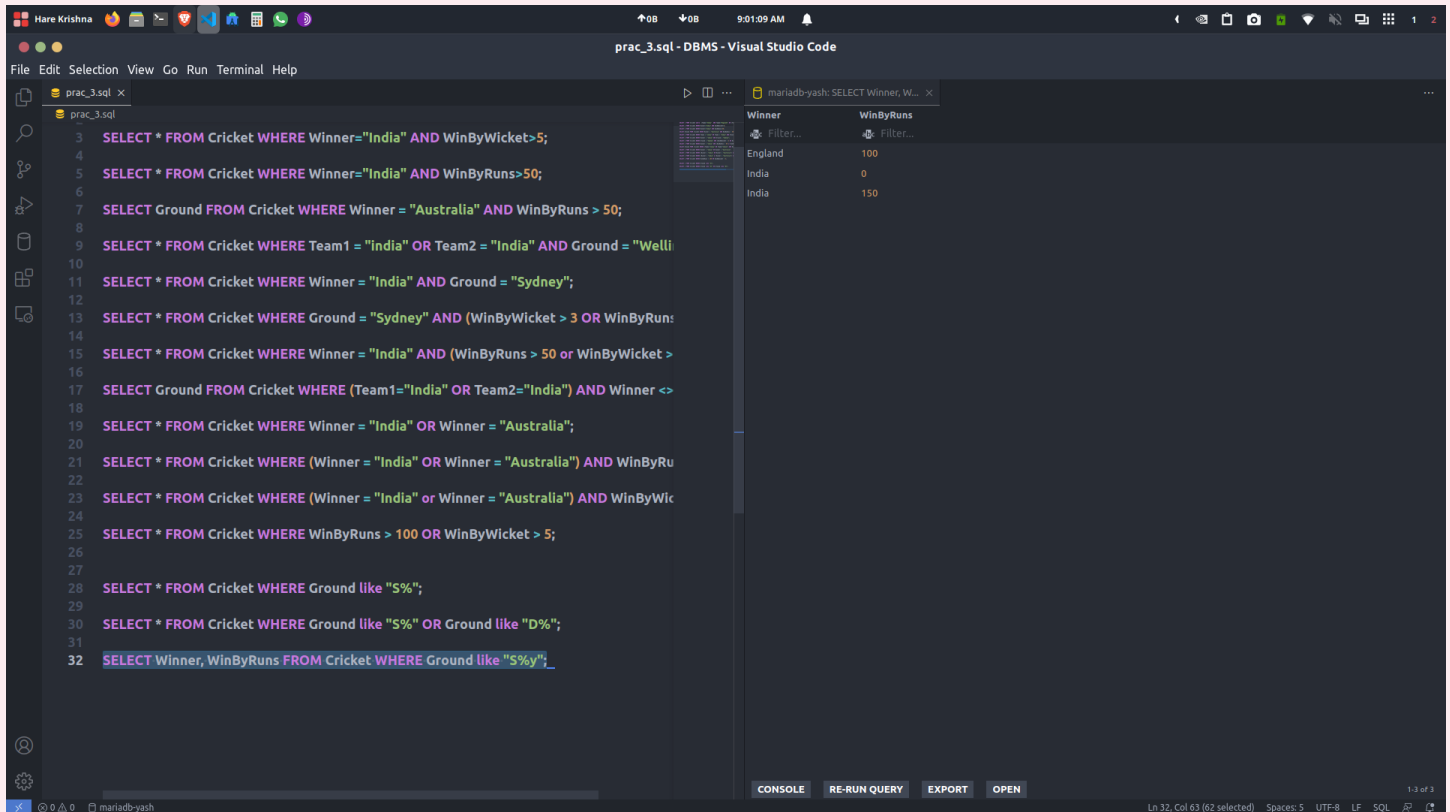
```
SELECT Winner, WinByRuns FROM Cricket WHERE Ground like "S%y";
```


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The screenshot shows the Visual Studio Code interface with a file named 'prac_3.sql' open. The editor contains 32 lines of SQL queries. The right-hand side of the interface displays the results of a query in a table format. The table has two columns: 'Winner' and 'WinByRuns'. The data rows are as follows:

Winner	WinByRuns
England	100
India	0
India	150

4. Display name of Ground start with "D" and are at least 5 characters in length.

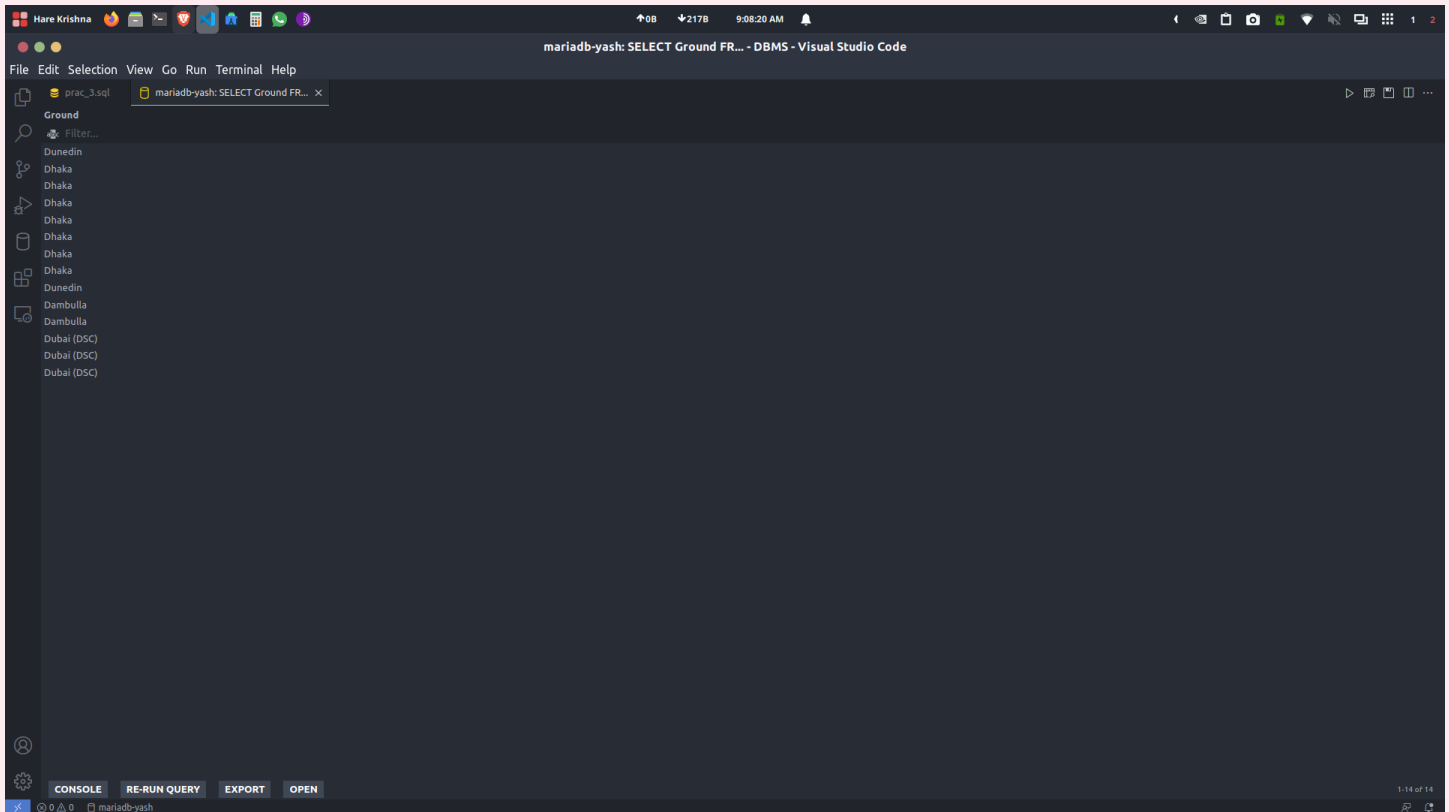
```
SELECT Ground FROM Cricket WHERE Ground like "D____%";
```

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5. Display Team1, Team2 and Winner Where Ground name contains “on” in any position.

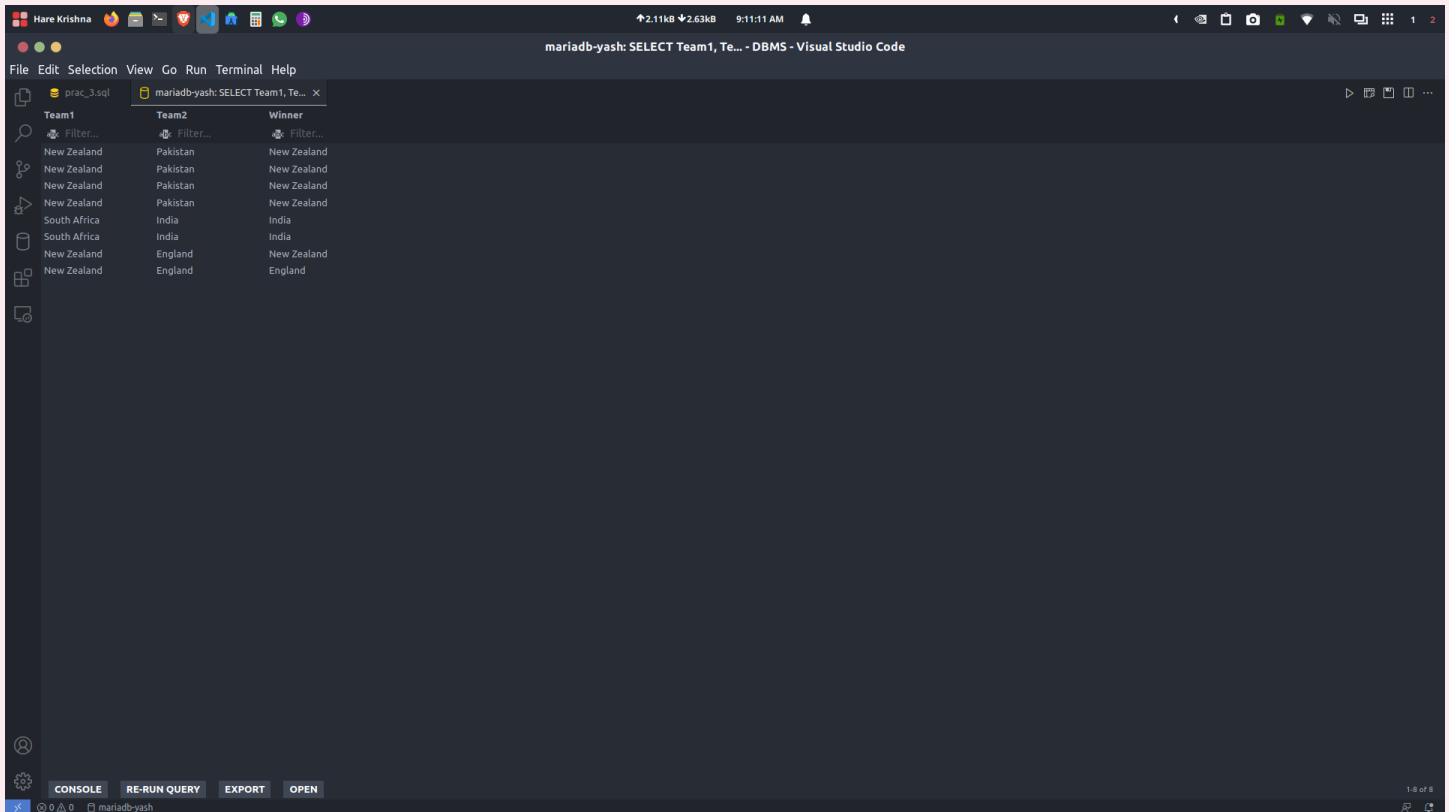
```
SELECT Team1, Team2, Winner FROM Cricket WHERE Ground like "%on%";
```

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6. Display Details of all matches where name have "e" in the second position.

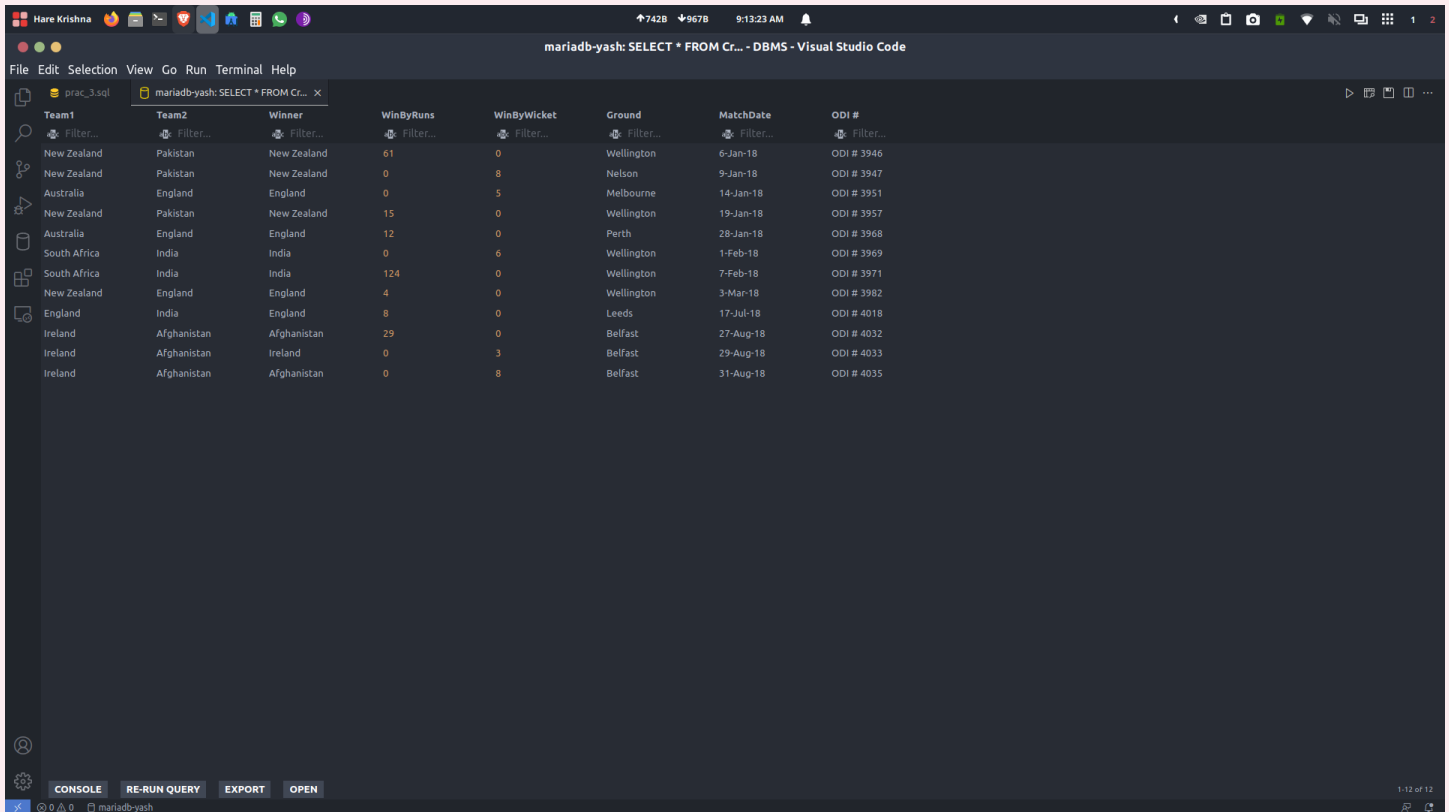
```
SELECT * FROM Cricket WHERE Ground like "_e%";
```

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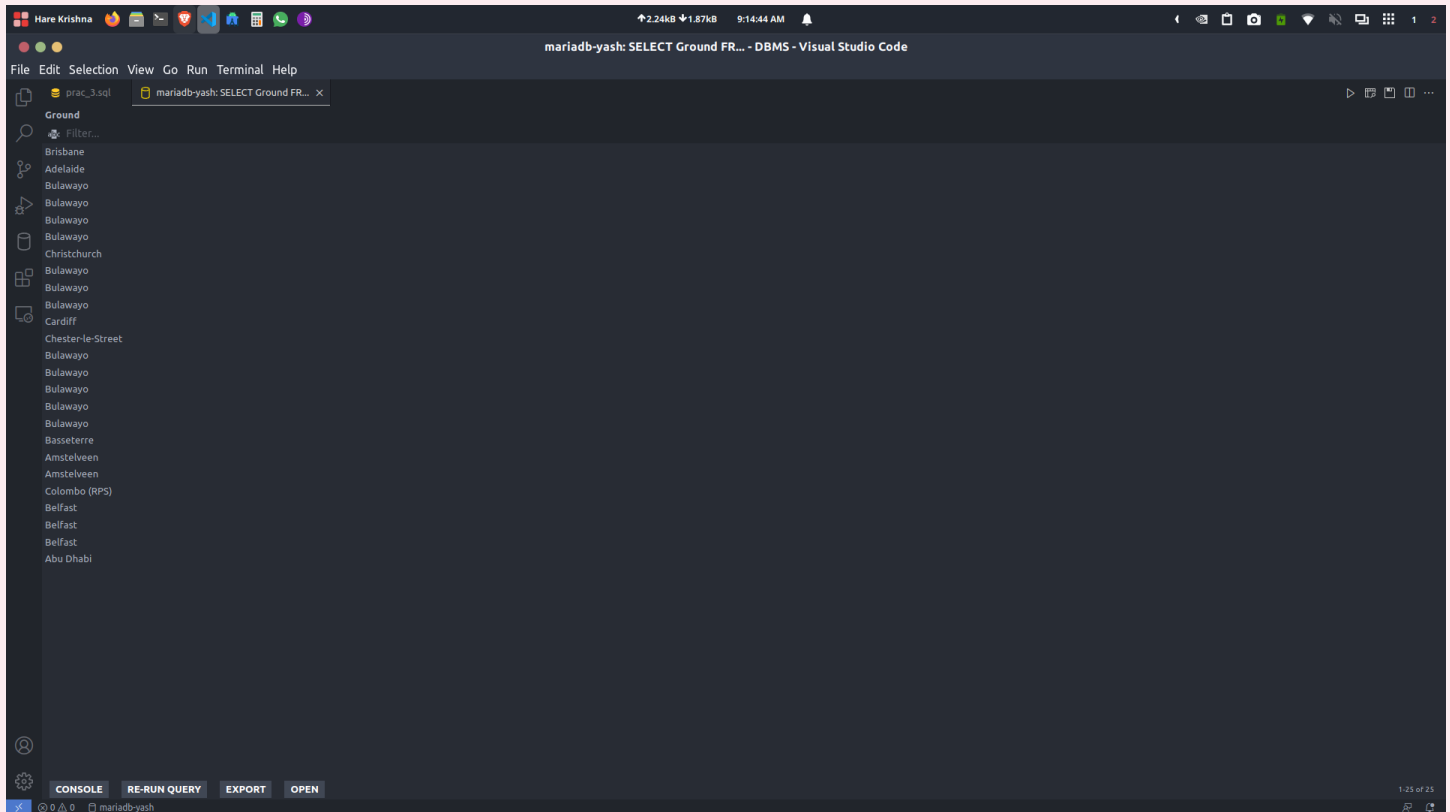
The screenshot shows a Visual Studio Code window with a file named 'mariadb-yash: SELECT * FROM Cr...' open. The table displays cricket match data with columns for Team1, Team2, Winner, WinByRuns, WinByWicket, Ground, MatchDate, and ODI #. The data is as follows:

Team1	Team2	Winner	WinByRuns	WinByWicket	Ground	MatchDate	ODI #
New Zealand	Pakistan	New Zealand	61	0	Wellington	6-Jan-18	ODI # 3946
New Zealand	Pakistan	New Zealand	0	8	Nelson	9-Jan-18	ODI # 3947
Australia	England	England	0	5	Melbourne	14-Jan-18	ODI # 3951
New Zealand	Pakistan	New Zealand	15	0	Wellington	19-Jan-18	ODI # 3957
Australia	England	England	12	0	Perth	28-Jan-18	ODI # 3968
South Africa	India	India	0	6	Wellington	1-Feb-18	ODI # 3969
South Africa	India	India	124	0	Wellington	7-Feb-18	ODI # 3971
New Zealand	England	England	4	0	Wellington	3-Mar-18	ODI # 3982
England	India	England	8	0	Leeds	17-Jul-18	ODI # 4018
Ireland	Afghanistan	Afghanistan	29	0	Belfast	27-Aug-18	ODI # 4032
Ireland	Afghanistan	Ireland	0	3	Belfast	29-Aug-18	ODI # 4033
Ireland	Afghanistan	Afghanistan	0	8	Belfast	31-Aug-18	ODI # 4035

7. Display name of Ground start with 'A', 'B' , or 'C'

```
SELECT Ground FROM Cricket WHERE Ground like ("A%") OR  
Ground like ("B%") OR Ground like ("C%");
```

Name - Yash Lakhtariya
Enrollment number - 21162101012
Branch - CBA , Batch - 31
DBMS Practical 3



Cricket_info

Team 1	Team 2	Winner	Margin	Ground
India	Australia	India	61 runs	Wellington
India	Australia	India	8 wickets	Sydney
India	Australia	Australia	4 wickets	Sydney
England	Australia	England	5 wickets	Sydney
India	Bangladesh	Bangladesh	8 wickets	Dhaka
New Zealand	Pakistan	New Zealand	5 wickets	Hamilton
England	Australia	England	4 wickets	Nelson
England	Australia	England	16 runs	Sydney

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England	Australia	England	12 runs	Perth
India	South Africa	India	6 wickets	Wellington
India	South Africa	India	4 wickets	Centurion
India	South Africa	India	124 runs	Cape Town
England	Australia	Australia	154 runs	Wellington
England	Australia	Australia	5 wickets	Nelson

England Australia England 150 runs Hamilton

India	Australia	India	51 runs	Sydney
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