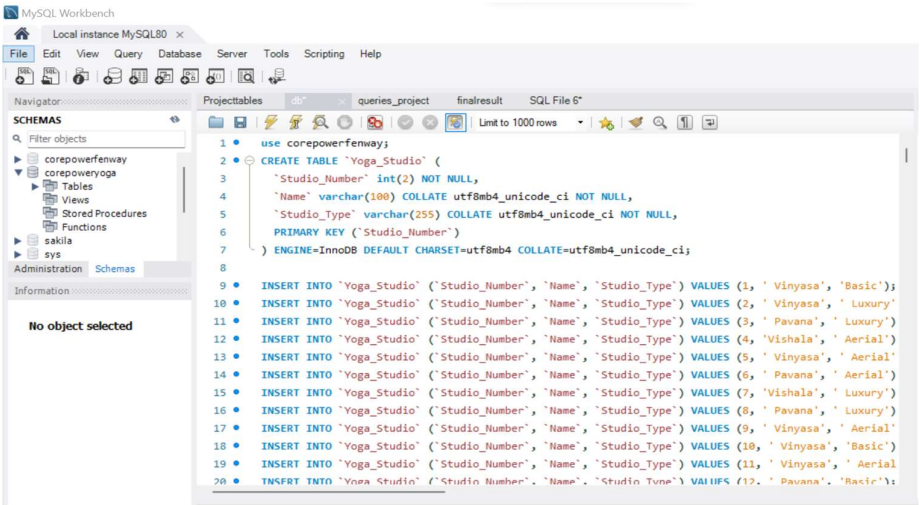
Progress Report:

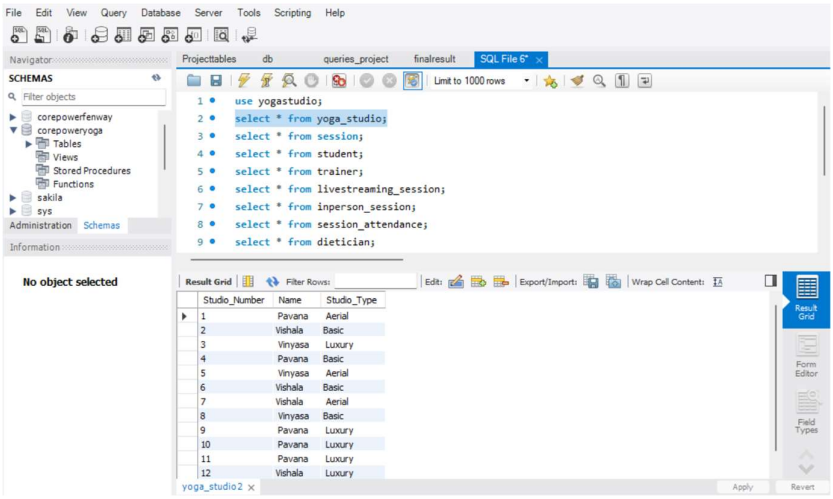
- Created a relational database for Fenway's CorePowerYoga
- Created 15 tables and populated the tables with data using filldb tool (https://filldb.info/)
- Queried the database and retrieved information to answer the following questions that will help CorePowerYoga's executive team find the trainers with high ratings for a period beginning from June 2022 till today.
    - Which sessions are held in a particular studio type (Basic, Luxury, Aerial)?
    - Which sessions were attended by a student enrolled under a trainer? Was it a live-streaming or in-person session?
    - How many students are enrolled under a trainer?
    - Which trainers have a high number of students enrolled?
    - Which students opted for a diet plan and which dietician suggested the plan?
    - How many hours does it take for students to learn a yoga form?
    - Which survey was taken by which student and what is the score provided by the student to the trainer?
    - How can a trainer's rating be decided from the score provided by the student in the survey?
    - What is the rating of each trainer?

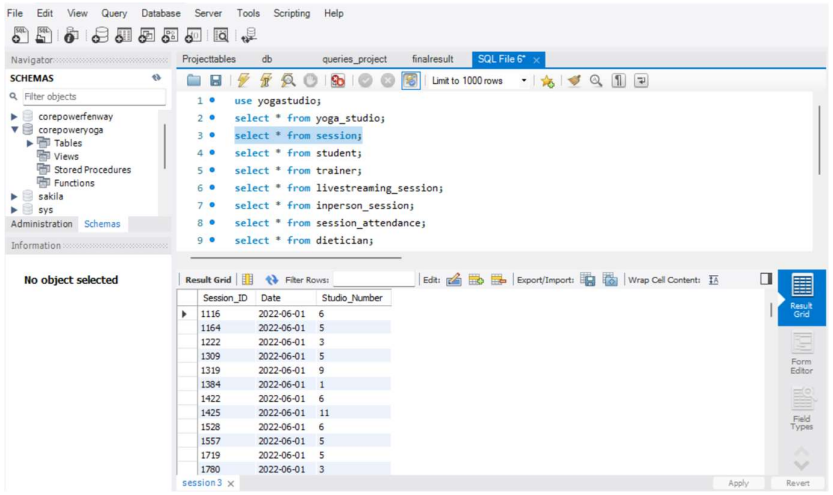
Screenshots of MySQL workbench displaying all the tables, queries and output of the queries are attached below.

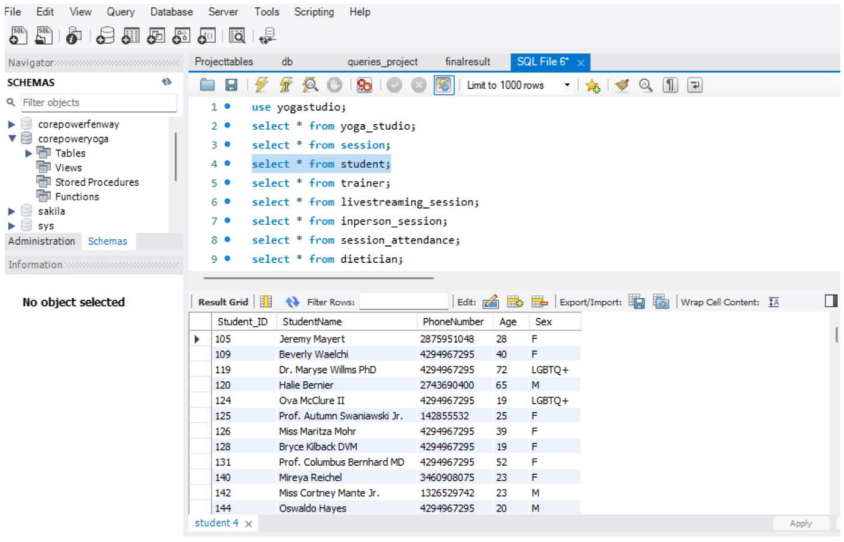
Creating schema and tables, and populating the tables with data

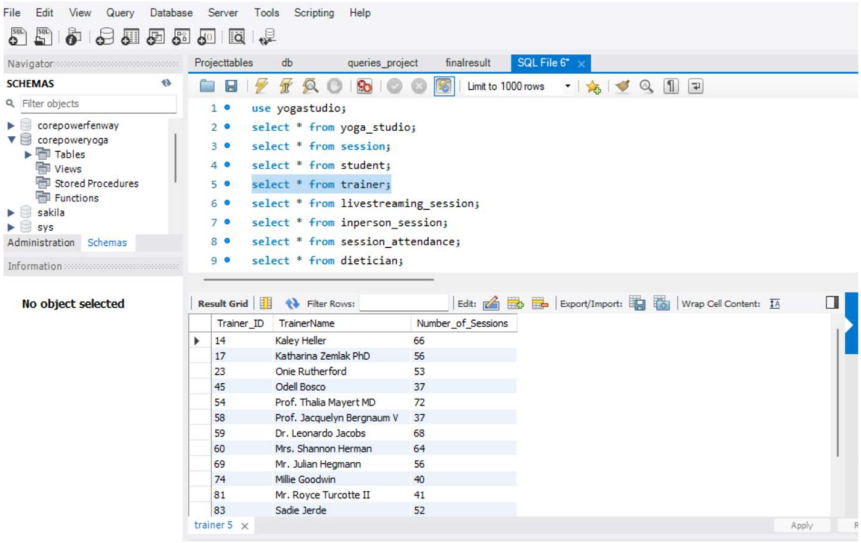


Displaying data from the 15 tables








File Edit View Query Database Server Tools Scripting Help
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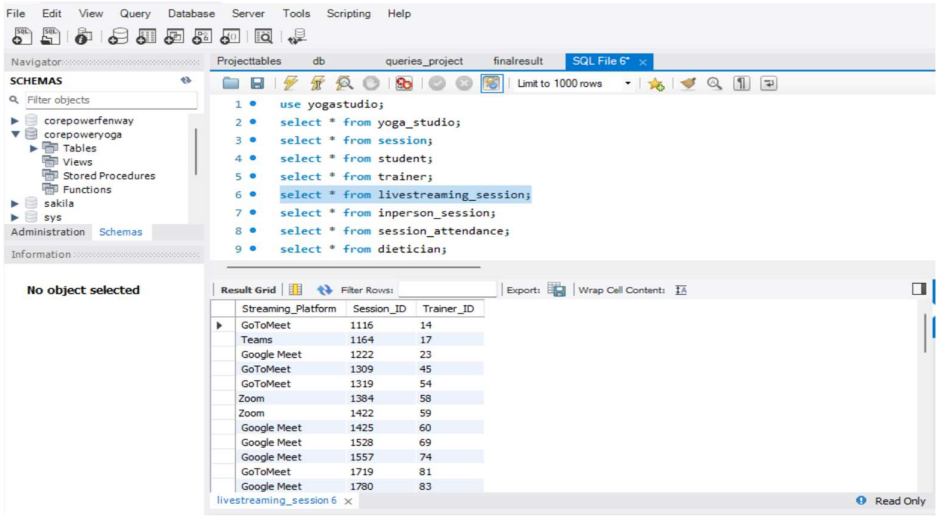
sys
Administration Schemas
Information
No object selected
Projecttables db queries_project finalresult SQL File 6*
Limit to 1000 rows
use yogastudio;
select * from yoga_studio;
select * from session;
select * from student;
select * from trainer;
select * from livestreaming_session;
select * from inperson_session;
select * from session_attendance;
select * from dietician;
Result Grid Filter Rows: Edit: Export/Import: Wrap Cell Content:
Trainer_ID TrainerName Number_of_Sessions
14 Kaley Heller 66
17 Katharina Zemlak PhD 56
23 Onie Rutherford 53
45 Odell Bosco 37
54 Prof. Thalia Mayert MD 72
58 Prof. Jacquelyn Bergnaum V 37
59 Dr. Leonardo Jacobs 68
60 Mrs. Shannon Herman 64
69 Mr. Julian Hegmann 56
74 Millie Goodwin 40
81 Mr. Royce Turcotte II 41
83 Sadie Jerde 52
trainer 5
Apply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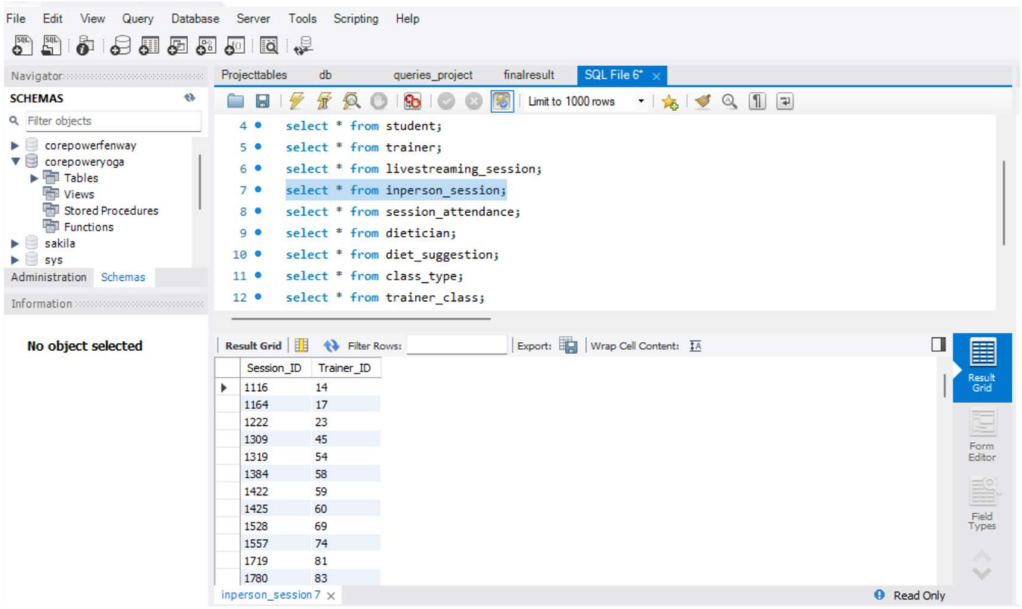
select * from student;
select * from trainer;
select * from livestreaming_session;
select * from inperson_session;
select * from session_attendance;
select * from dietician;
Result Grid Filter Rows: Export: Wrap Cell Content:
Streaming_Platform Session_ID Trainer_ID
GoToMeet 1116 14
Teams 1164 17
Google Meet 1222 23
GoToMeet 1309 45
GoToMeet 1319 54
Zoom 1384 58
Zoom 1422 59
Google Meet 1425 60
Google Meet 1528 69
Google Meet 1557 74
GoToMeet 1719 81
Google Meet 1780 83
livestreaming_session 6
Read Only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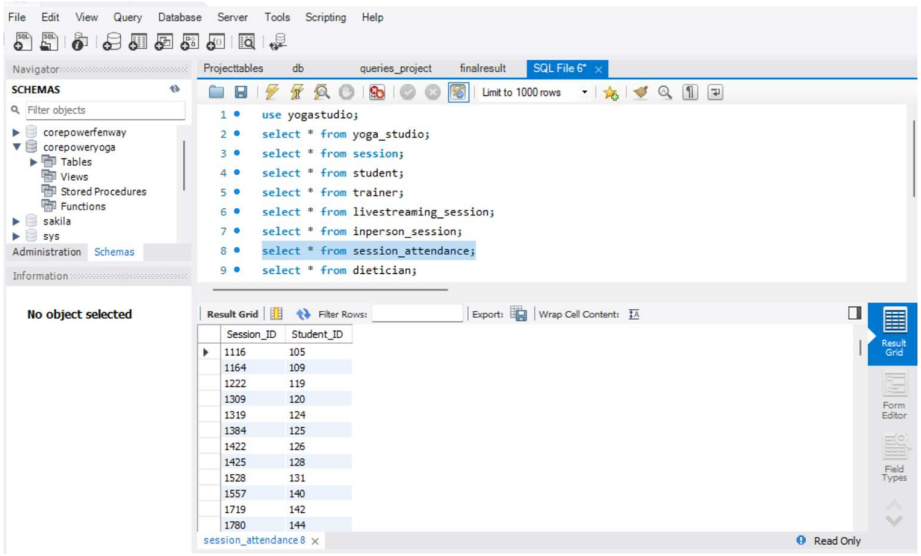
No object selected
Projecttables db queries_project finalresult SQL File 6*
Limit to 1000 rows
select * from student;
select * from trainer;
select * from livestreaming_session;
select * from inperson_session;
select * from session_attendance;
select * from dietician;
select * from diet_suggestion;
select * from class_type;
select * from trainer_class;
Result Grid Filter Rows: Export: Wrap Cell Content:
Session_ID Trainer_ID
1116 14
1164 17
1222 23
1309 45
1319 54
1384 58
1422 59
1425 60
1528 69
1557 74
1719 81
1780 83
inperson_session 7
Read Only
Result Grid
Form Editor
Field Types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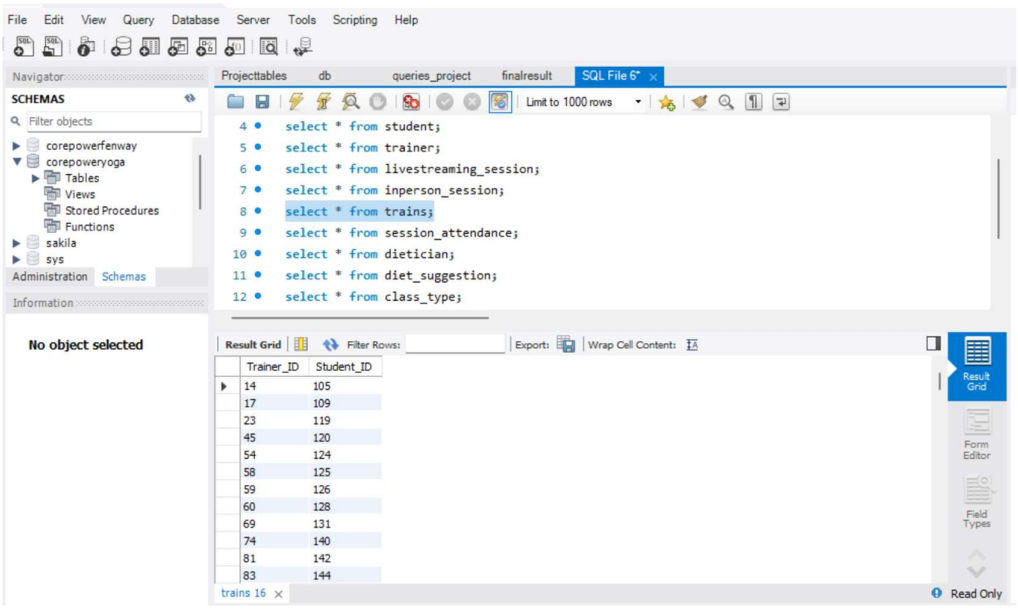
select * from session;
select * from student;
select * from trainer;
select * from livestreaming_session;
select * from inperson_session;
select * from session_attendance;
select * from dietician;
Result Grid Filter Rows: Export: Wrap Cell Content:
Session_ID Student_ID
1116 105
1164 109
1222 119
1309 120
1319 124
1384 125
1422 126
1425 128
1528 131
1557 140
1719 142
1780 144
session_attendance 8
Read Only
Result Grid
Form Editor
Field Types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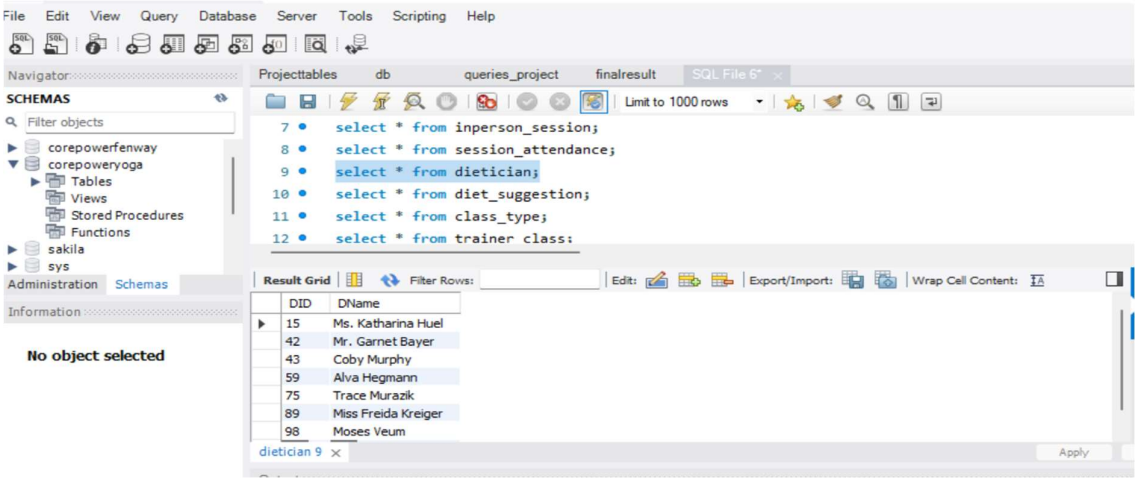
Limit to 1000 rows
select * from student;
select * from trainer;
select * from livestreaming_session;
select * from inperson_session;
select * from trains;
select * from session_attendance;
select * from dietician;
select * from diet_suggestion;
select * from class_type;
Result Grid Filter Rows: Export: Wrap Cell Content:
Trainer_ID Student_ID
14 105
17 109
23 119
45 120
54 124
58 125
59 126
60 128
69 131
74 140
81 142
83 144
trains 16
Read Only
Result Grid
Form Editor
Field Types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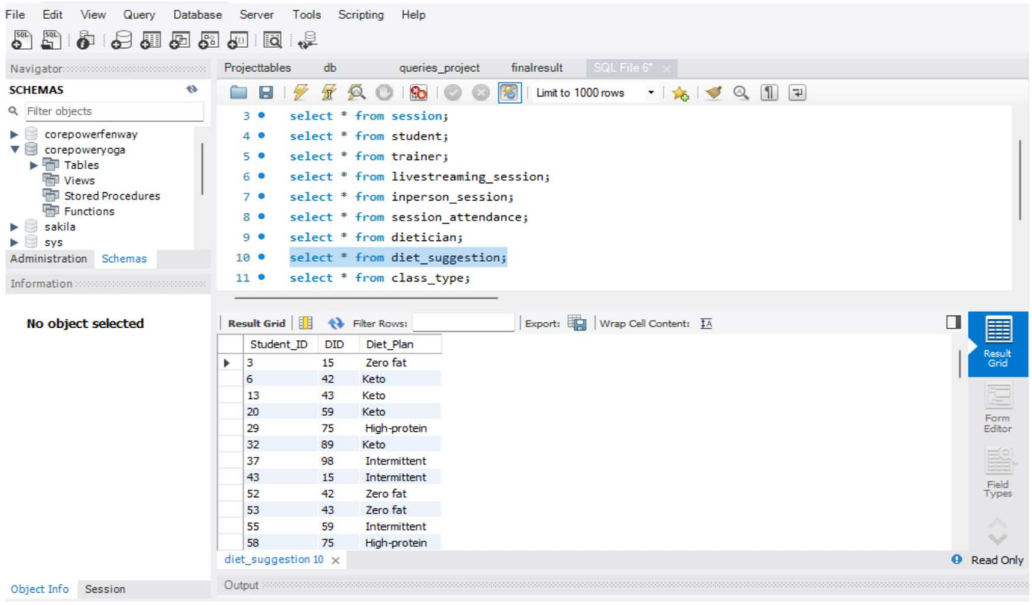
Limit to 1000 rows
select * from inperson_session;
select * from session_attendance;
select * from dietician;
select * from diet_suggestion;
select * from class_type;
select * from trainer class;
Result Grid Filter Rows: Edit: Export/Import: Wrap Cell Content:
DID DName
15 Ms. Katharina Huel
42 Mr. Garnet Bayer
43 Coby Murphy
59 Alva Hegmann
75 Trace Murazik
89 Miss Freida Kreiger
98 Moses Veum
dietician 9
Apply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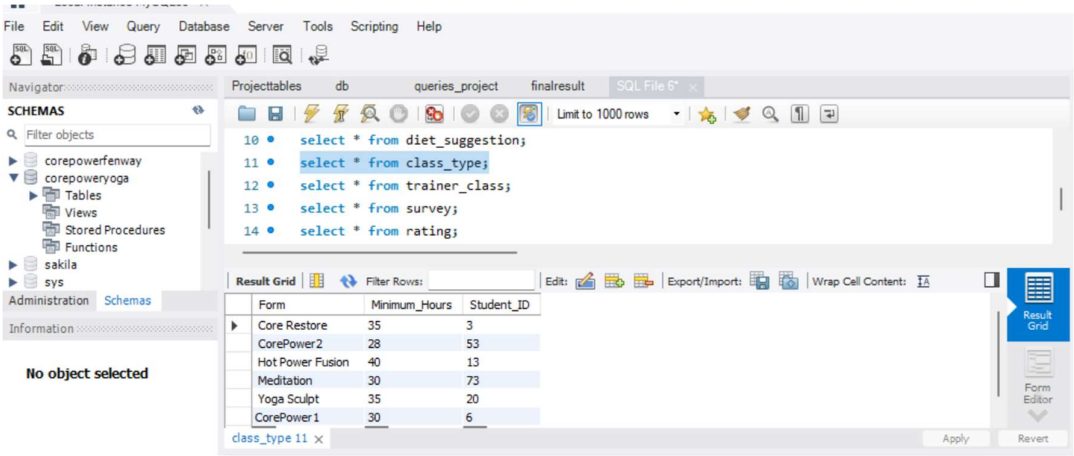
Limit to 1000 rows
3 select * from session;
4 select * from student;
5 select * from trainer;
6 select * from livestreaming_session;
7 select * from inperson_session;
8 select * from session_attendance;
9 select * from dietician;
10 select * from diet_suggestion;
11 select * from class_type;
Result Grid Filter Rows: Export: Wrap Cell Content:
Student_ID DID Diet_Plan
3 15 Zero fat
6 42 Keto
13 43 Keto
20 59 Keto
29 75 High-protein
32 89 Keto
37 98 Intermittent
43 15 Intermittent
52 42 Zero fat
53 43 Zero fat
55 59 Intermittent
58 75 High-protein
diet_suggestion 10
Result Grid
Form Editor
Field Types
Read Only
Object Info Session
Output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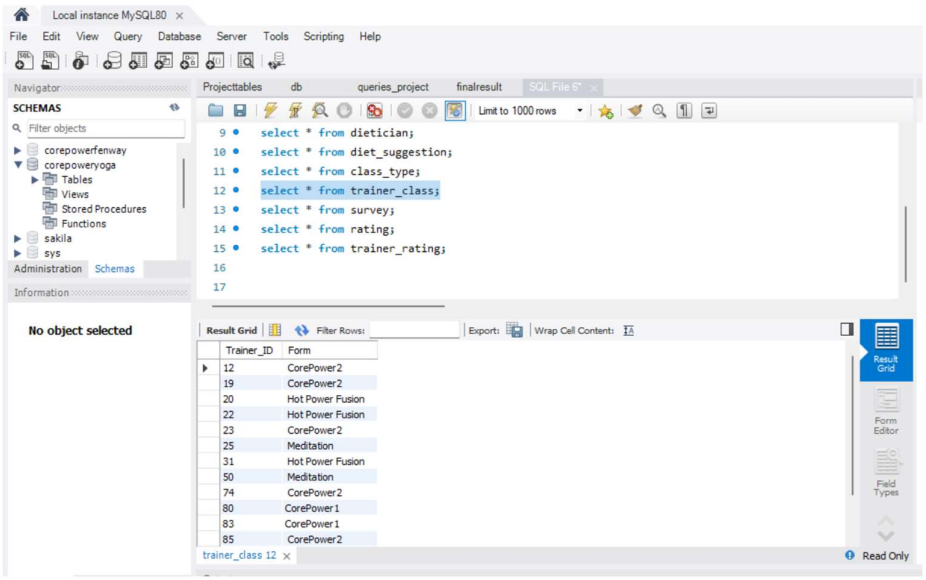
Administration Schemas
Information
No object selected
Projecttables db queries_project finalresult SQL File 6*
Limit to 1000 rows
10 select * from diet_suggestion;
11 select * from class_type;
12 select * from trainer_class;
13 select * from survey;
14 select * from rating;
Result Grid Filter Rows: Edit: Export/Import: Wrap Cell Content:
Form Minimum_Hours Student_ID
Core Restore 35 3
CorePower2 28 53
Hot Power Fusion 40 13
Meditation 30 73
Yoga Sculpt 35 20
CorePower1 30 6
class_type 11
Result Grid
Form Editor
Apply
Revert


Local instance MySQL80
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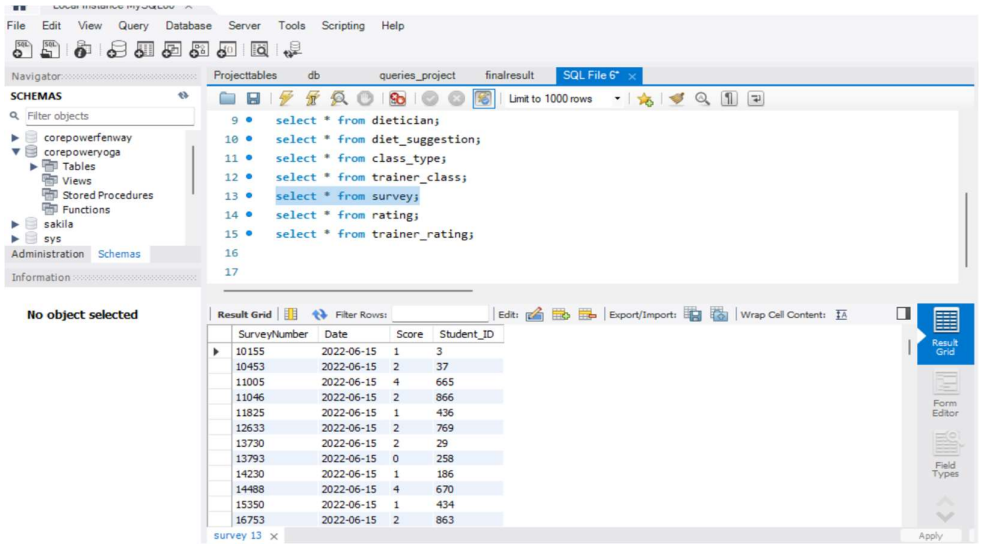
10 select * from diet_suggestion;
11 select * from class_type;
12 select * from trainer_class;
13 select * from survey;
14 select * from rating;
15 select * from trainer_rating;
16
17
Result Grid Filter Rows: Export: Wrap Cell Content:
Trainer_ID Form
12 CorePower2
19 CorePower2
20 Hot Power Fusion
22 Hot Power Fusion
23 CorePower2
25 Meditation
31 Hot Power Fusion
50 Meditation
74 CorePower2
80 CorePower1
83 CorePower1
85 CorePower2
trainer_class 12
Result Grid
Form Editor
Field Types
Read Only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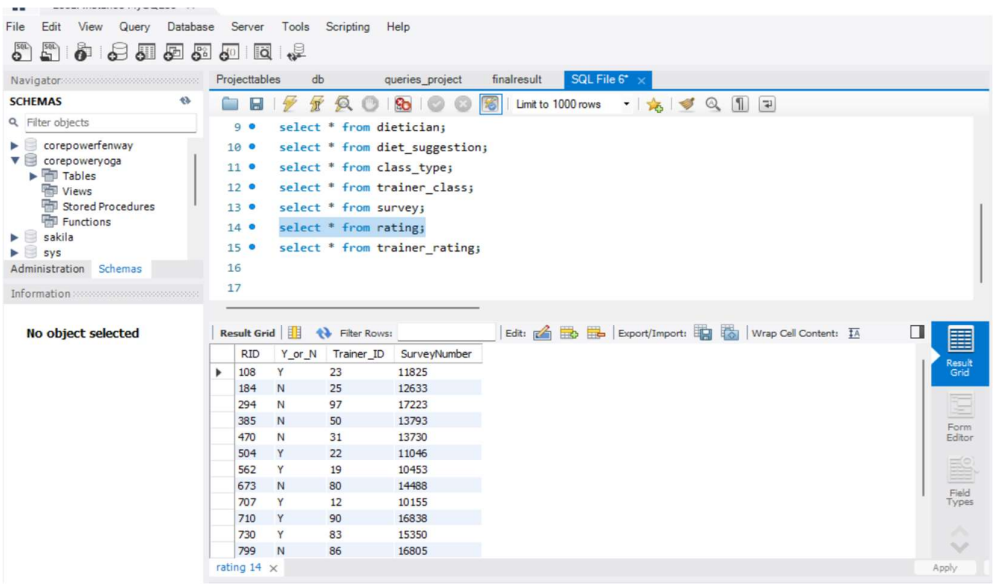
10 select * from diet_suggestion;
11 select * from class_type;
12 select * from trainer_class;
13 select * from survey;
14 select * from rating;
15 select * from trainer_rating;
16
17
Result Grid Filter Rows: Edit: Export/Import: Wrap Cell Content:
SurveyNumber Date Score Student_ID
10155 2022-06-15 1 3
10453 2022-06-15 2 37
11005 2022-06-15 4 665
11046 2022-06-15 2 866
11825 2022-06-15 1 436
12633 2022-06-15 2 769
13730 2022-06-15 2 29
13793 2022-06-15 0 258
14230 2022-06-15 1 186
14488 2022-06-15 4 670
15350 2022-06-15 1 434
16753 2022-06-15 2 863
survey 13
Result Grid
Form Editor
Field Types
Apply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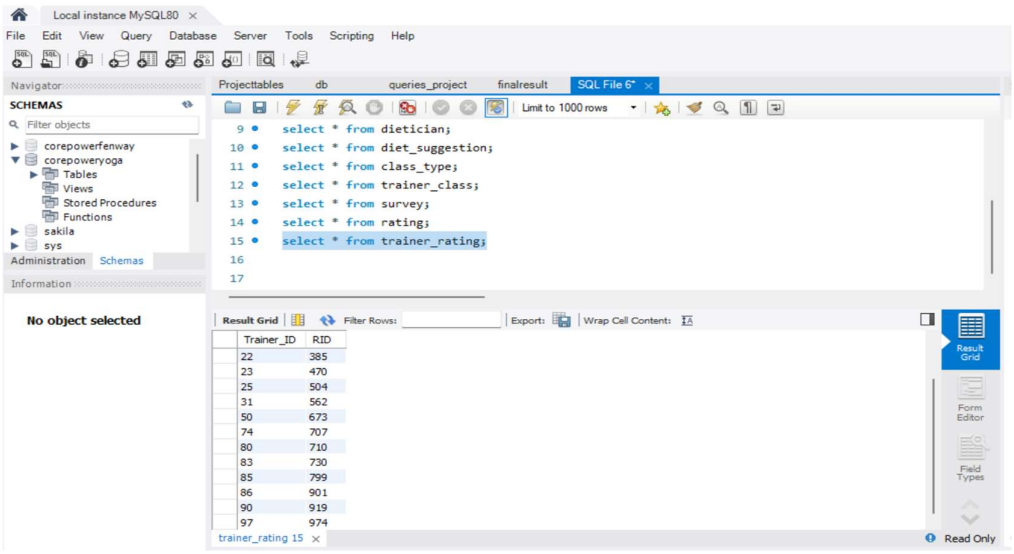
Projecttables db queries_project finalresult SQL File 6*
Limit to 1000 rows
9 select * from dietician;
10 select * from diet_suggestion;
11 select * from class_type;
12 select * from trainer_class;
13 select * from survey;
14 select * from rating;
15 select * from trainer_rating;
16
17
Result Grid Filter Rows: Edit: Export/Import: Wrap Cell Content:
RID Y_or_N Trainer_ID SurveyNumber
108 Y 23 11825
184 N 25 12633
294 N 97 17223
385 N 50 13793
470 N 31 13730
504 Y 22 11046
562 Y 19 10453
673 N 80 14488
707 Y 12 10155
710 Y 90 16838
730 Y 83 15350
799 N 86 16805
rating 14
Result Grid
Form Editor
Field Types
Apply


Local instance MySQL80
File Edit View Query Database Server Tools Scripting Help
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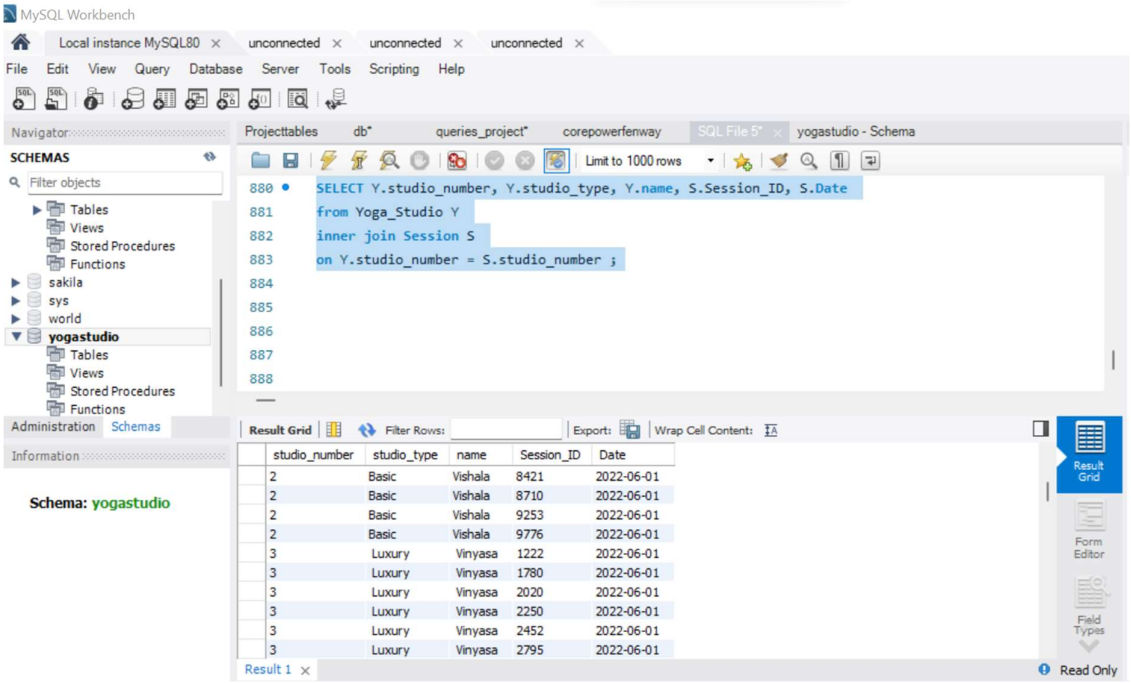
Limit to 1000 rows
9 select * from dietician;
10 select * from diet_suggestion;
11 select * from class_type;
12 select * from trainer_class;
13 select * from survey;
14 select * from rating;
15 select * from trainer_rating;
16
17
Result Grid Filter Rows: Export: Wrap Cell Content:
Trainer_ID RID
22 385
23 470
25 504
31 562
50 673
74 707
80 710
83 730
85 799
86 901
90 919
97 974
trainer_rating 15
Read Only
Result Grid
Form Editor
Field Types

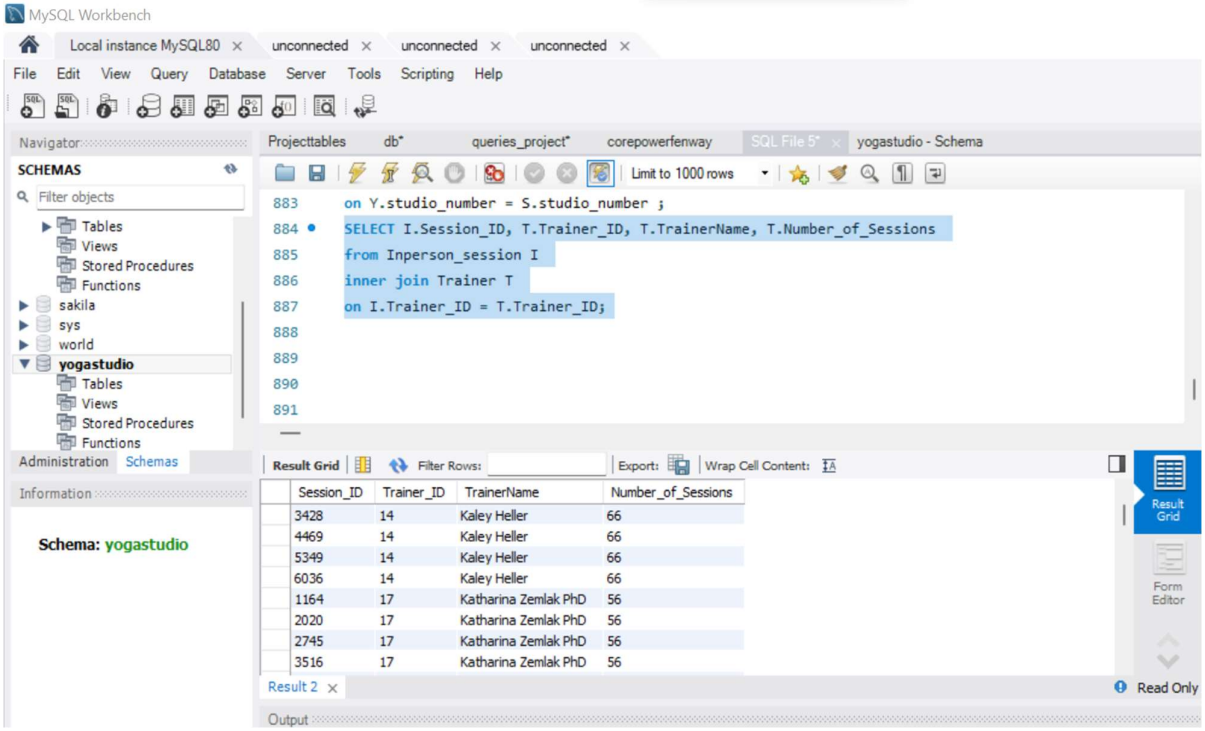
Querying the Database

- **Query to find which Session takes place in which Studio Number and Studio type:**



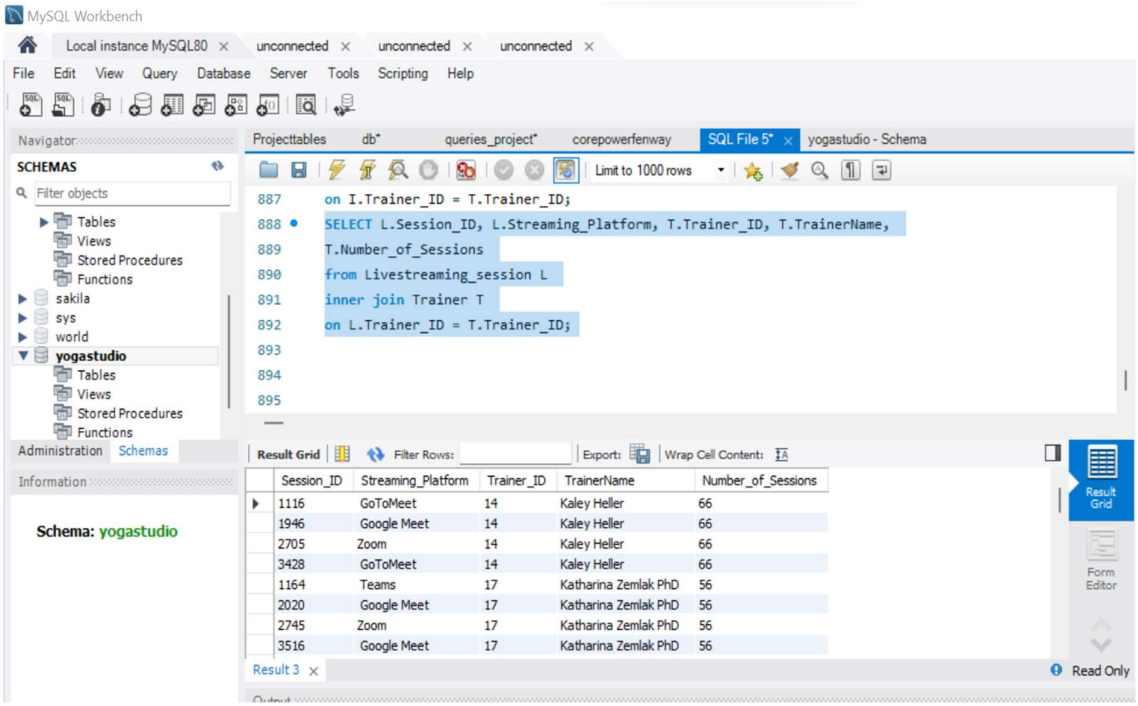
studio_number	studio_type	name	Session_ID	Date
2	Basic	Vishala	8421	2022-06-01
2	Basic	Vishala	8710	2022-06-01
2	Basic	Vishala	9253	2022-06-01
2	Basic	Vishala	9776	2022-06-01
3	Luxury	Vinyasa	1222	2022-06-01
3	Luxury	Vinyasa	1780	2022-06-01
3	Luxury	Vinyasa	2020	2022-06-01
3	Luxury	Vinyasa	2250	2022-06-01
3	Luxury	Vinyasa	2452	2022-06-01
3	Luxury	Vinyasa	2795	2022-06-01

- **Query to display the details of a Trainer handling a Session:**
  a) **Inperson Session**

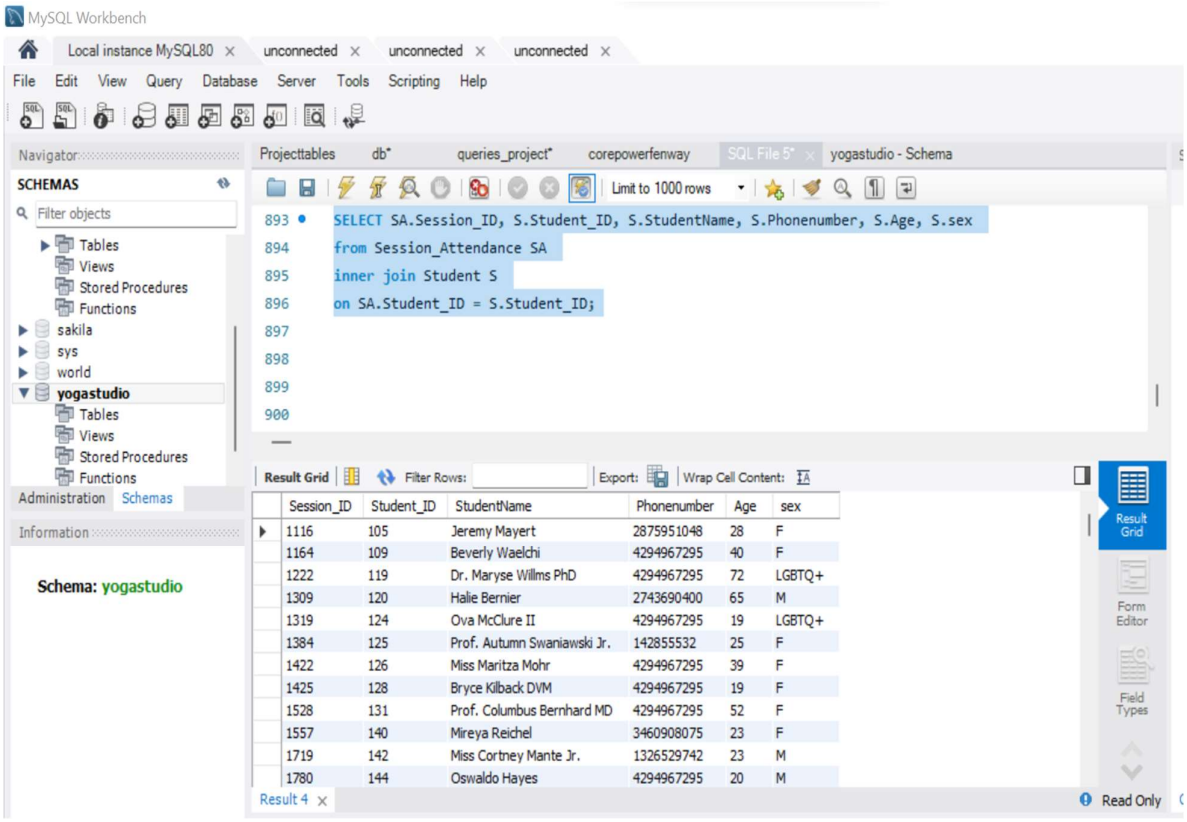


Session_ID	Trainer_ID	TrainerName	Number_of_Sessions
3428	14	Kaley Heller	66
4469	14	Kaley Heller	66
5349	14	Kaley Heller	66
6036	14	Kaley Heller	66
1164	17	Katharina Zemlak PhD	56
2020	17	Katharina Zemlak PhD	56
2745	17	Katharina Zemlak PhD	56
3516	17	Katharina Zemlak PhD	56

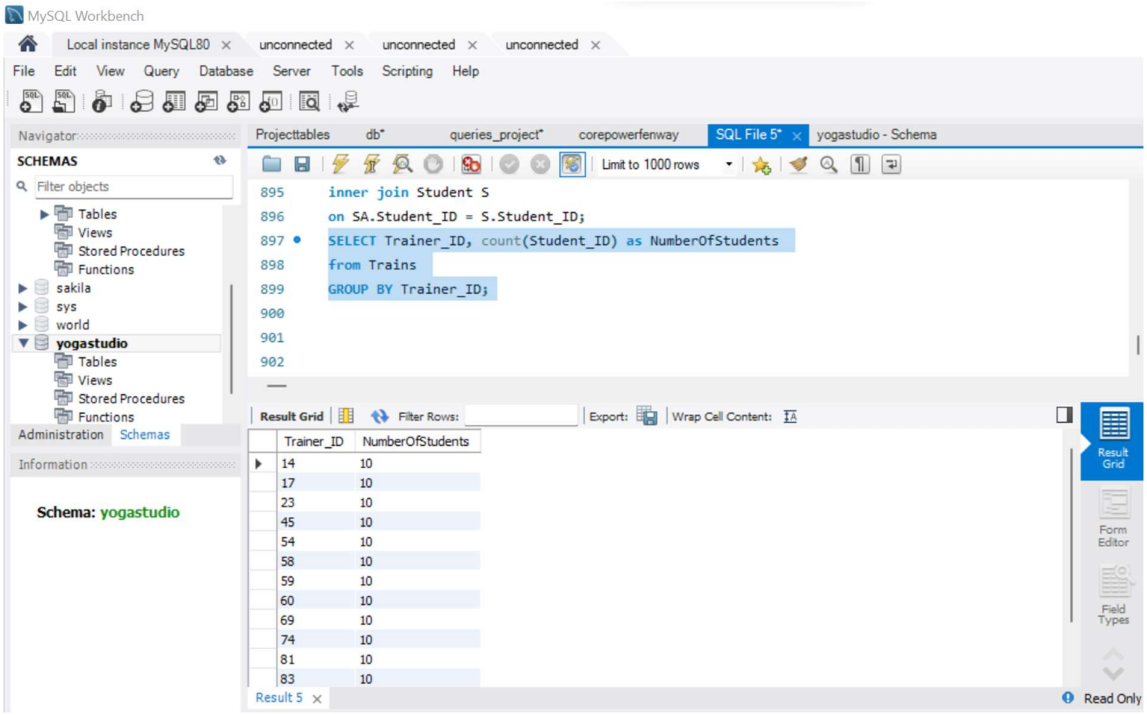
b) LiveStreaming Session:



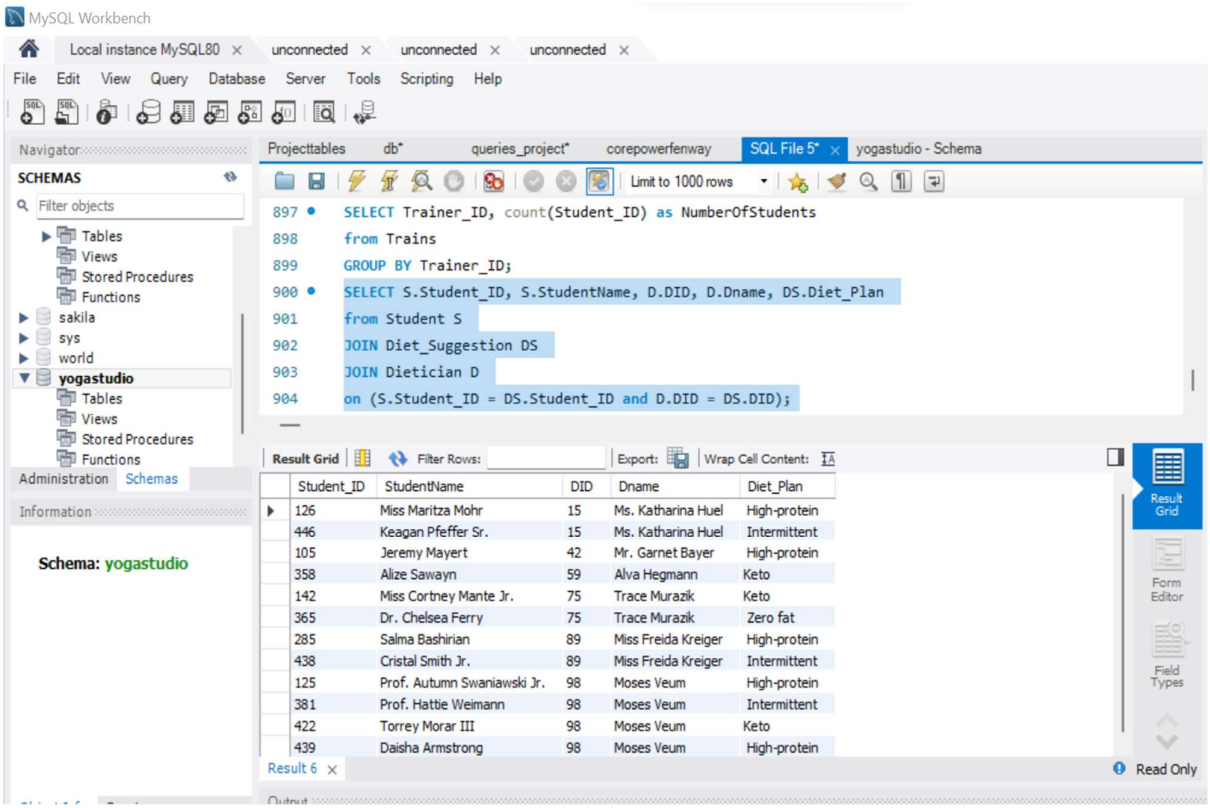
- **Query to display the details of the students attending a session:**



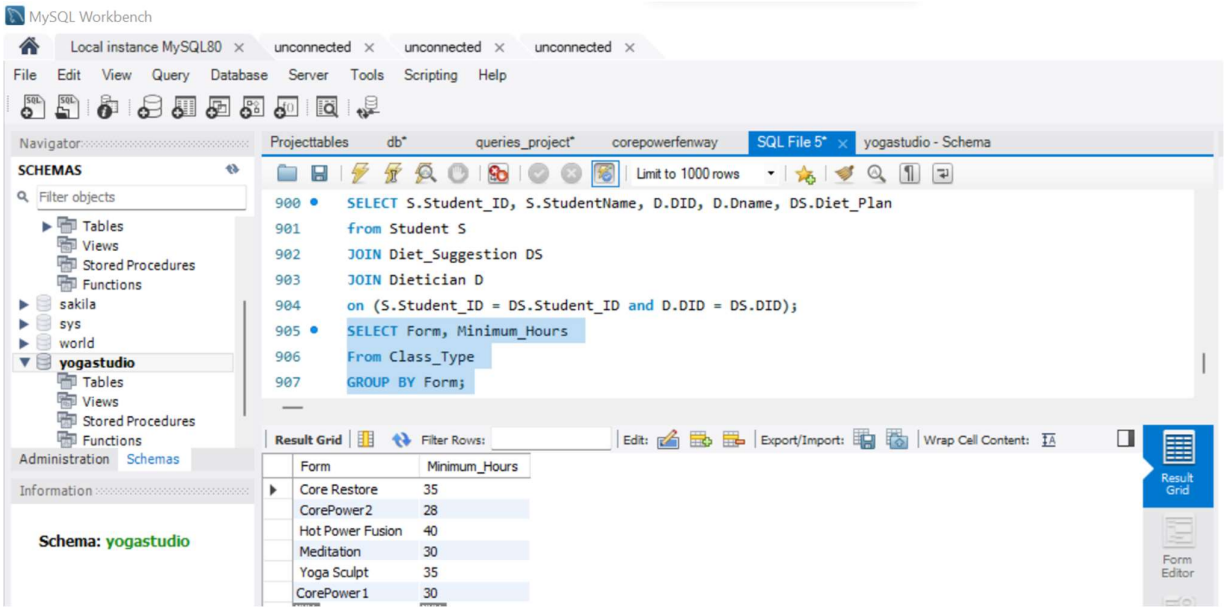
- **Query to display number of students enrolled under a trainer:**



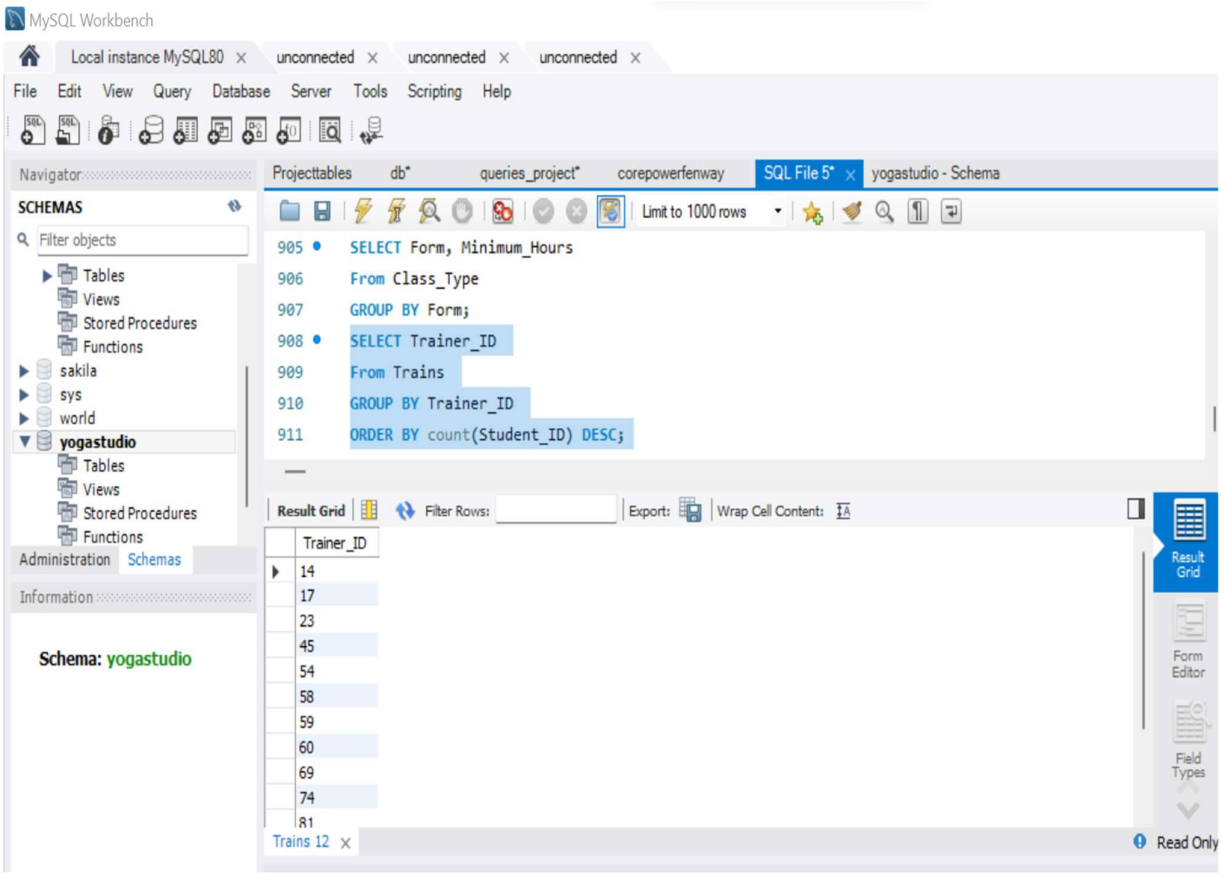
- **Query to display the information of students and dietician associated with a Diet Plan:**



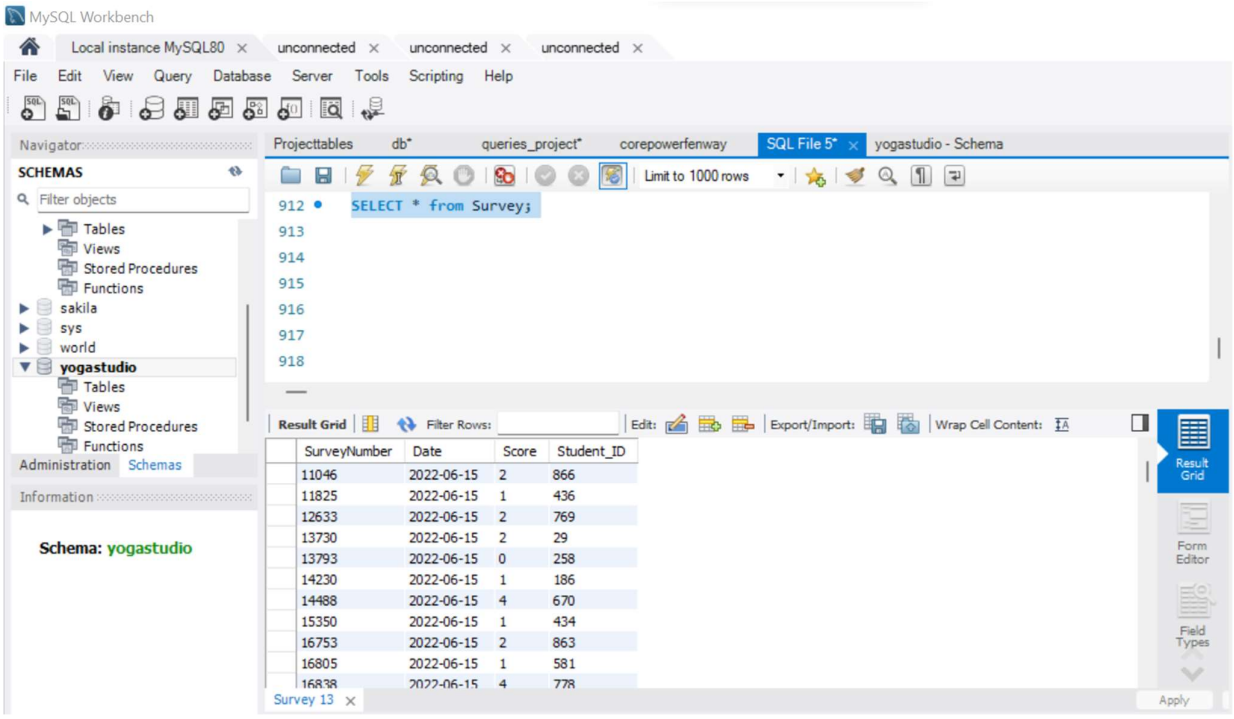
- **Query to display the minimum number of hours required to learn a yoga form:**



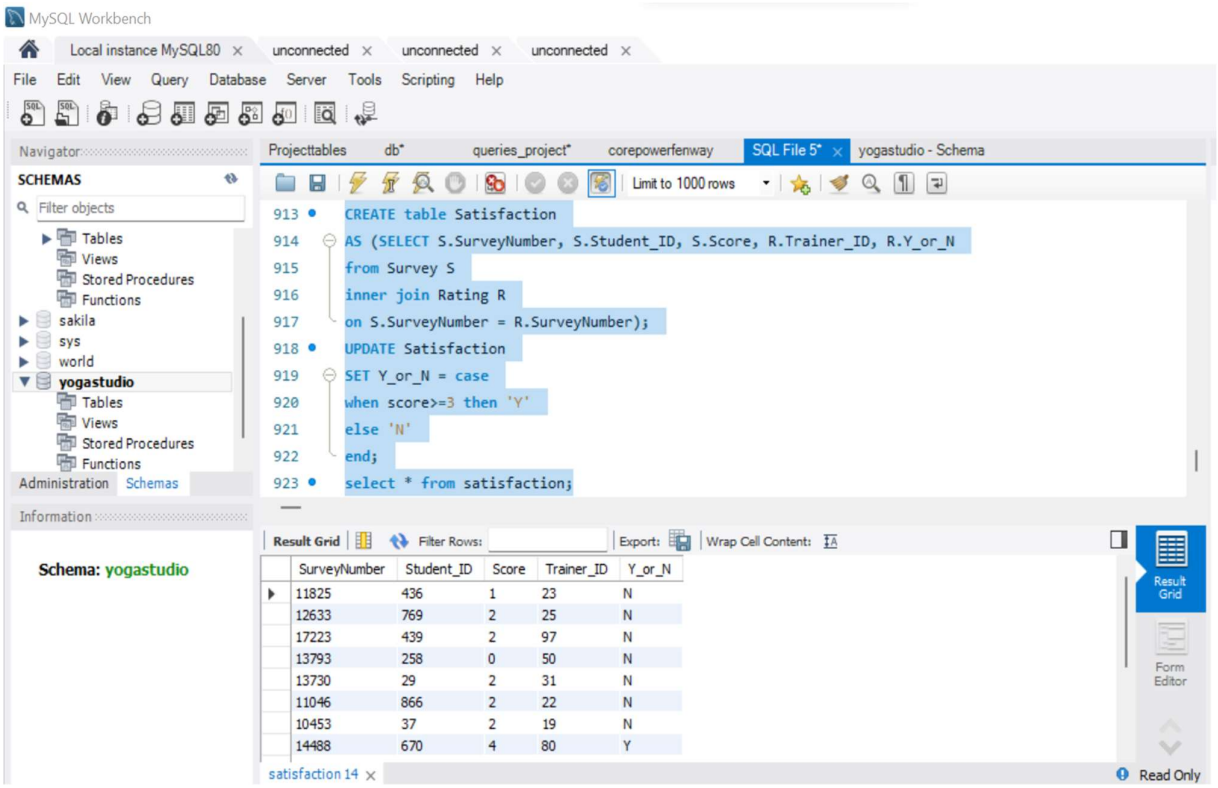
- **Query to display the ID of trainers with highest to lowest number of students:**



- **Query to display details of the surveys taken by students:**



- **Query to calculate trainer rating based on the score from surveys taken by students:**



- **Finally, we retrieve rating of each trainer.**
- **Query to display the rating of a Trainer:**