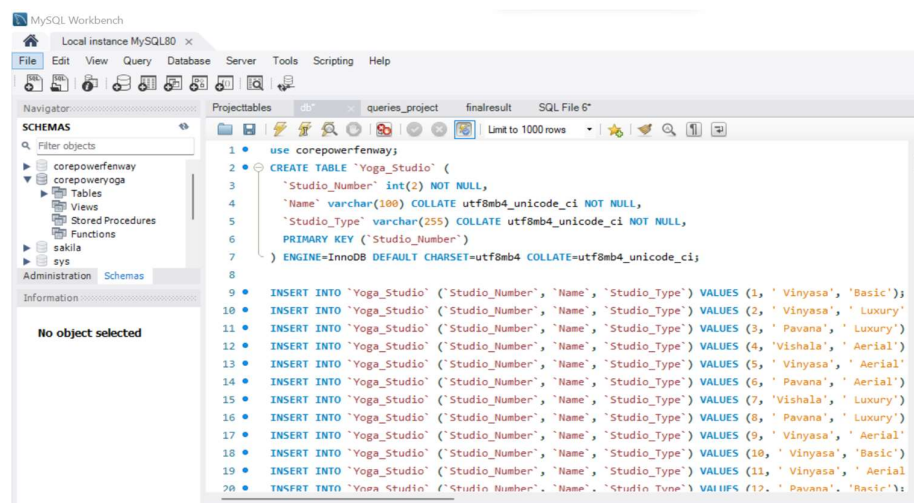


Progress Report:

- 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

The screenshot shows the SQL Studio interface with a query window titled 'SQL File 6'. The query is as follows:

```
1 • use yogastudio;
2 • select * from yoga_studio;
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;
```

The 'Result Grid' displays the following data:

Studio_Number	Name	Studio_Type
1	Pavana	Aerial
2	Vishala	Basic
3	Vinyasa	Luxury
4	Pavana	Basic
5	Vinyasa	Aerial
6	Vishala	Basic
7	Vinyasa	Aerial
8	Vinyasa	Basic
9	Pavana	Luxury
10	Pavana	Luxury
11	Pavana	Luxury
12	Vishala	Luxury

The screenshot shows the SQL Studio interface with a query window titled 'SQL File 6'. The query is as follows:

```
1 • use yogastudio;
2 • select * from yoga_studio;
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;
```

The 'Result Grid' displays the following data:

Session_ID	Date	Studio_Number
1116	2022-06-01	6
1164	2022-06-01	5
1222	2022-06-01	3
1309	2022-06-01	5
1319	2022-06-01	9
1384	2022-06-01	1
1422	2022-06-01	6
1425	2022-06-01	11
1528	2022-06-01	6
1557	2022-06-01	5
1719	2022-06-01	5
1780	2022-06-01	3

The screenshot shows the SQL Studio interface with a query window titled 'SQL File 6'. The query is as follows:

```
1 • use yogastudio;
2 • select * from yoga_studio;
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;
```

The 'Result Grid' displays the following data:

Student_ID	StudentName	PhoneNumber	Age	Sex
105	Jeremy Mayert	2875951048	28	F
109	Beverly Waelchi	4294967295	40	F
119	Dr. Maryse Wilms PhD	4294967295	72	LGBTQ+
120	Halle Bernier	2743690400	65	M
124	Ova McClure II	4294967295	19	LGBTQ+
125	Prof. Autumn Swaniawski Jr.	142855532	25	F
126	Miss Maritza Mohr	4294967295	39	F
128	Bryce Kilback DVM	4294967295	19	F
131	Prof. Columbus Bernhard MD	4294967295	52	F
140	Mireya Reichel	3460908075	23	F
142	Miss Courtney Manite Jr.	1326529742	23	M
144	Oswaldo Hayes	4294967295	20	M

File Edit View Query Database Server Tools Scripting Help

Navigator

Projectables db queries_project finalresult SQL File 6" x

1 • use yogastudio;
 2 • select * from yoga_studio;
 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;

No object selected

Result Grid Filter Rows: Edit: Export/Import: Wrap Cell Content: I

Trainer_ID	TrainerName	Number_of_Sessions
14	Kaley Heller	66
17	Katharina Zemlak PhD	56
23	Orlie Rutherford	53
45	Odell Bosco	37
54	Prof. Thalia Mayert MD	72
58	Prof. Jacquelyn Berghaum 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 x Apply

File Edit View Query Database Server Tools Scripting Help

Navigator

Projectables db queries_project finalresult SQL File 6" x

1 • use yogastudio;
 2 • select * from yoga_studio;
 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;

No object selected

Result Grid Filter Rows: Export: Wrap Cell Content: I

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 x Read Only

File Edit View Query Database Server Tools Scripting Help

Navigator

Projectables db queries_project finalresult SQL File 6" x

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;
 12 • select * from trainer_class;

No object selected

Result Grid Filter Rows: Export: Wrap Cell Content: I

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 x Read Only

Result Grid
Form Editor
Field Types

File Edit View Query Database Server Tools Scripting Help

Navigator: Schemas Filter objects
 corepowerfenway
 corepoweryoga
 Tables
 Views
 Stored Procedures
 Functions
 sakila
 sys
 Administration Schemas

Projectables db queries_project finalresult SQL File 6* x
 Limit to 1000 rows

```

1 • use yogastudio;
2 • select * from yoga_studio;
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;

```

Result Grid Filter Rows: Export: Wrap Cell Content: I

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 x Read Only

File Edit View Query Database Server Tools Scripting Help

Navigator: Schemas Filter objects
 corepowerfenway
 corepoweryoga
 Tables
 Views
 Stored Procedures
 Functions
 sakila
 sys
 Administration Schemas

Projectables db queries_project finalresult SQL File 6* x
 Limit to 1000 rows

```

4 • select * from student;
5 • select * from trainer;
6 • select * from livestreaming_session;
7 • select * from inperson_session;
8 • select * from trains;
9 • select * from session_attendance;
10 • select * from dietician;
11 • select * from diet_suggestion;
12 • select * from class_type;

```

Result Grid Filter Rows: Export: Wrap Cell Content: I

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 x Read Only

File Edit View Query Database Server Tools Scripting Help

Navigator: Schemas Filter objects
 corepowerfenway
 corepoweryoga
 Tables
 Views
 Stored Procedures
 Functions
 sakila
 sys
 Administration Schemas

Projectables db queries_project finalresult SQL File 6* x
 Limit to 1000 rows

```

7 • select * from inperson_session;
8 • select * from session_attendance;
9 • select * from dietician;
10 • select * from diet_suggestion;
11 • select * from class_type;
12 • select * from trainer class;

```

Result Grid Filter Rows: Edit: Export/Import: Wrap Cell Content: I

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 x Apply

File Edit View Query Database Server Tools Scripting Help

Projectables db queries_project finalresult SQL File 6" x

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 x

Object Info Session

Output

Read Only

File Edit View Query Database Server Tools Scripting Help

Projectables db queries_project finalresult SQL File 6" x

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 x

Apply Revert

Local instance MySQL80 x

File Edit View Query Database Server Tools Scripting Help

Projectables db queries_project finalresult SQL File 6" x

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;

```

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 x

Read Only

Local instance MySQL80 x

File Edit View Query Database Server Tools Scripting Help

Navigator Projectables db queries_project finalresult SQL File 6' x

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

No object selected

Result Grid Filter Rows: Edit: Export/Import: Wrap Cell Content: I

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 x

Apply

File Edit View Query Database Server Tools Scripting Help

Navigator Projectables db queries_project finalresult SQL File 6' x

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

No object selected

Result Grid Filter Rows: Edit: Export/Import: Wrap Cell Content: I

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 x

Apply

Local instance MySQL80 x

File Edit View Query Database Server Tools Scripting Help

Navigator Projectables db queries_project finalresult SQL File 6' x

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

No object selected

Result Grid Filter Rows: Export: Wrap Cell Content: I

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 x

Read Only

Querying the Database

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

The screenshot shows the MySQL Workbench interface with the 'yogastudio' schema selected. The query editor contains the following SQL code:

```
880 • SELECT Y.studio_number, Y.studio_type, Y.name, S.Session_ID, S.Date
881 from Yoga_Studio Y
882 inner join Session S
883 on Y.studio_number = S.studio_number ;
884
885
886
887
888
```

The 'Result Grid' displays the following data:

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

The screenshot shows the MySQL Workbench interface with the 'yogastudio' schema selected. The query editor contains the following SQL code:

```
883 on Y.studio_number = S.studio_number ;
884 • SELECT I.Session_ID, T.Trainer_ID, T.TrainerName, T.Number_of_Sessions
885 from Inperson_session I
886 inner join Trainer T
887 on I.Trainer_ID = T.Trainer_ID;
888
889
890
891
```

The 'Result Grid' displays the following data:

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:

The screenshot shows the MySQL Workbench interface. The left sidebar displays the 'SCHEMAS' panel with 'yogastudio' selected. The main editor shows a SQL query (lines 887-895) that joins 'Livestreaming_session' (L) and 'Trainer' (T) tables. The query selects session details and trainer names. The 'Result Grid' at the bottom displays the results of this query.

Session_ID	Streaming_Platform	Trainer_ID	TrainerName	Number_of_Sessions
1116	GoToMeet	14	Kaley Heller	66
1946	Google Meet	14	Kaley Heller	66
2705	Zoom	14	Kaley Heller	66
3428	GoToMeet	14	Kaley Heller	66
1164	Teams	17	Katharina Zemlak PhD	56
2020	Google Meet	17	Katharina Zemlak PhD	56
2745	Zoom	17	Katharina Zemlak PhD	56
3516	Google Meet	17	Katharina Zemlak PhD	56

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

The screenshot shows the MySQL Workbench interface. The left sidebar displays the 'SCHEMAS' panel with 'yogastudio' selected. The main editor shows a SQL query (lines 893-900) that joins 'Session_Attendance' (SA) and 'Student' (S) tables. The query selects session details and student information. The 'Result Grid' at the bottom displays the results of this query.

Session_ID	Student_ID	StudentName	Phonenumber	Age	sex
1116	105	Jeremy Mayert	2875951048	28	F
1164	109	Beverly Waelchi	4294967295	40	F
1222	119	Dr. Maryse Willms PhD	4294967295	72	LGBTQ+
1309	120	Halle Bernier	2743690400	65	M
1319	124	Ova McClure II	4294967295	19	LGBTQ+
1384	125	Prof. Autumn Swaniawski Jr.	142855532	25	F
1422	126	Miss Maritza Mohr	4294967295	39	F
1425	128	Bryce Kilback DVM	4294967295	19	F
1528	131	Prof. Columbus Bernhard MD	4294967295	52	F
1557	140	Mireya Reichel	3460908075	23	F
1719	142	Miss Cortney Mante Jr.	1326529742	23	M
1780	144	Oswaldo Hayes	4294967295	20	M

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

The screenshot shows the MySQL Workbench interface with the 'yogastudio' schema selected. The query editor contains the following SQL code:

```

895 inner join Student S
896 on SA.Student_ID = S.Student_ID;
897 • SELECT Trainer_ID, count(Student_ID) as NumberOfStudents
898 from Trains
899 GROUP BY Trainer_ID;
900
901
902

```

The 'Result Grid' shows the following data:

Trainer_ID	NumberOfStudents
14	10
17	10
23	10
45	10
54	10
58	10
59	10
60	10
69	10
74	10
81	10
83	10

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

The screenshot shows the MySQL Workbench interface with the 'yogastudio' schema selected. The query editor contains the following SQL code:

```

897 • SELECT Trainer_ID, count(Student_ID) as NumberOfStudents
898 from Trains
899 GROUP BY Trainer_ID;
900 • SELECT S.Student_ID, S.StudentName, D.DID, D.Dname, DS.Diet_Plan
901 from Student S
902 JOIN Diet_Suggestion DS
903 JOIN Dietician D
904 on (S.Student_ID = DS.Student_ID and D.DID = DS.DID);

```

The 'Result Grid' shows the following data:

Student_ID	StudentName	DID	Dname	Diet_Plan
126	Miss Maritza Mohr	15	Ms. Katharina Huel	High-protein
446	Keagan Pfeffer Sr.	15	Ms. Katharina Huel	Intermittent
105	Jeremy Mayert	42	Mr. Garnet Bayer	High-protein
358	Alize Sawayn	59	Alva Hegmann	Keto
142	Miss Courtney Mante Jr.	75	Trace Murazik	Keto
365	Dr. Chelsea Ferry	75	Trace Murazik	Zero fat
285	Salma Bashirian	89	Miss Freida Kreiger	High-protein
438	Cristal Smith Jr.	89	Miss Freida Kreiger	Intermittent
125	Prof. Autumn Swaniawski Jr.	98	Moses Veum	High-protein
381	Prof. Hattie Weimann	98	Moses Veum	Intermittent
422	Torrey Morar III	98	Moses Veum	Keto
439	Daisha Armstrong	98	Moses Veum	High-protein

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

The screenshot shows the MySQL Workbench interface with the 'yogastudio' schema selected. The query editor contains the following SQL code:

```

900 • SELECT S.Student_ID, S.StudentName, D.DID, D.Dname, DS.Diet_Plan
901 from Student S
902 JOIN Diet_Suggestion DS
903 JOIN Dietician D
904 on (S.Student_ID = DS.Student_ID and D.DID = DS.DID);
905 • SELECT Form, Minimum_Hours
906 From Class_Type
907 GROUP BY Form;
  
```

The Result Grid displays the following data:

Form	Minimum_Hours
Core Restore	35
CorePower2	28
Hot Power Fusion	40
Meditation	30
Yoga Sculpt	35
CorePower 1	30

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

The screenshot shows the MySQL Workbench interface with the 'yogastudio' schema selected. The query editor contains the following SQL code:

```

905 • SELECT Form, Minimum_Hours
906 From Class_Type
907 GROUP BY Form;
908 • SELECT Trainer_ID
909 From Trains
910 GROUP BY Trainer_ID
911 ORDER BY count(Student_ID) DESC;
  
```

The Result Grid displays the following data:

Trainer_ID
14
17
23
45
54
58
59
60
69
74
81

At the bottom of the interface, it shows 'Trains 12' and a 'Read Only' status.

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

MySQL Workbench interface showing a query to display details of surveys taken by students. The query is executed in the SQL File 5* editor, and the results are displayed in the Result Grid.

Query:

```
SELECT * from Survey;
```

Result Grid:

SurveyNumber	Date	Score	Student_ID
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
16805	2022-06-15	1	581
16838	2022-06-15	4	778

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

MySQL Workbench interface showing a query to calculate trainer rating based on the score from surveys taken by students. The query is executed in the SQL File 5* editor, and the results are displayed in the Result Grid.

Query:

```
CREATE table Satisfaction
AS (SELECT S.SurveyNumber, S.Student_ID, S.Score, R.Trainer_ID, R.Y_or_N
from Survey S
inner join Rating R
on S.SurveyNumber = R.SurveyNumber);
UPDATE Satisfaction
SET Y_or_N = case
when score>=3 then 'Y'
else 'N'
end;
select * from satisfaction;
```

Result Grid:

SurveyNumber	Student_ID	Score	Trainer_ID	Y_or_N
11825	436	1	23	N
12633	769	2	25	N
17223	439	2	97	N
13793	258	0	50	N
13730	29	2	31	N
11046	866	2	22	N
10453	37	2	19	N
14488	670	4	80	Y

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

The screenshot shows the MySQL Workbench interface. The left sidebar displays the 'SCHEMAS' tree with 'yogastudio' selected. The main editor window shows a SQL script with the following lines:

```

918 • UPDATE Satisfaction
919 • SET Y_or_N = case
920 •   when score>=3 then 'Y'
921 •   else 'N'
922 • end;
923 • select * from satisfaction;
924 • SELECT Trainer_ID, Y_or_N from Satisfaction;
925
926
927
928

```

The 'Information' tab at the bottom shows the 'Schema: yogastudio' and a 'Result Grid' with the following data:

Trainer_ID	Y_or_N
23	N
25	N
97	N
50	N
31	N
22	N
19	N
80	Y

The status bar at the bottom indicates 'Satisfaction 15 x' and 'Read Only'.