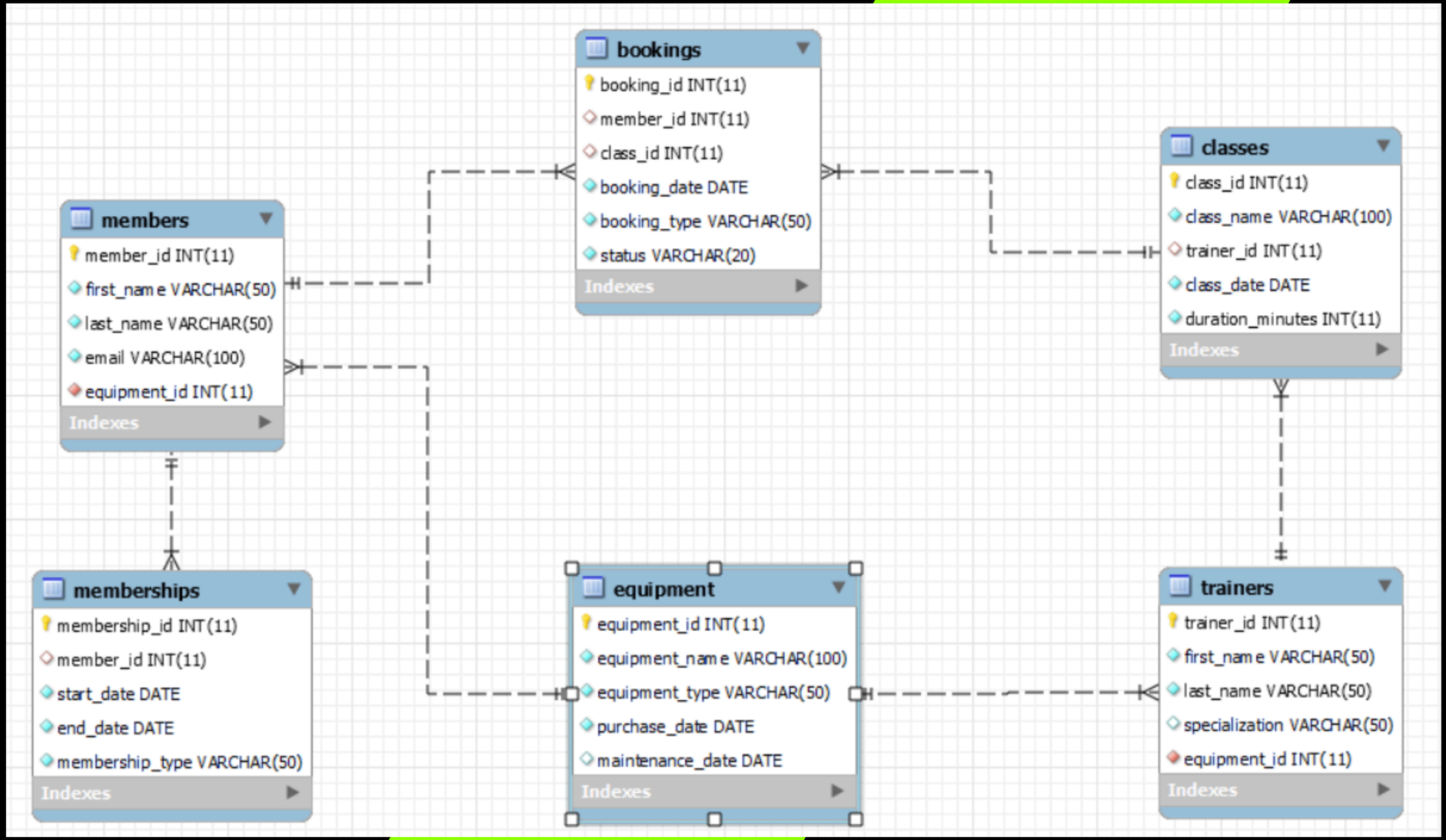
FIT TRACK DB
GYM CENTRE

WELCOME TO TEAM HULK_DB

ABSTRACT :

THE "TEAM HULK_DB" PROJECT IS A SIMPLE DATABASE FOR MANAGING A GYM'S MEMBERS, TRAINERS, CLASSES, AND EQUIPMENT. IT HELPS KEEP TRACK OF BOOKINGS AND MEMBERSHIPS, MAKING GYM OPERATIONS SMOOTH AND ORGANIZED. THIS SYSTEM MAKES IT EASIER FOR GYM STAFF TO MANAGE EVERYTHING IN ONE PLACE AND PROVIDES A BETTER EXPERIENCE FOR MEMBERS.

ER_DIGRAM


bookings
booking_id INT(11)
member_id INT(11)
class_id INT(11)
booking_date DATE
booking_type VARCHAR(50)
status VARCHAR(20)
Indexes
classes
class_id INT(11)
class_name VARCHAR(100)
trainer_id INT(11)
class_date DATE
duration_minutes INT(11)
Indexes
members
member_id INT(11)
first_name VARCHAR(50)
last_name VARCHAR(50)
email VARCHAR(100)
equipment_id INT(11)
Indexes
memberships
membership_id INT(11)
member_id INT(11)
start_date DATE
end_date DATE
membership_type VARCHAR(50)
Indexes
equipment
equipment_id INT(11)
equipment_name VARCHAR(100)
equipment_type VARCHAR(50)
purchase_date DATE
maintenance_date DATE
Indexes
trainers
trainer_id INT(11)
first_name VARCHAR(50)
last_name VARCHAR(50)
specialization VARCHAR(50)
equipment_id INT(11)
Indexes

STRUCTURE OF TABLE

```
DESCRIBE Members;
```

Filter Rows: | Export: | Wrap Cell Content:

Field	Type	Null	Key	Default	Extra
member_id	int(11)	NO	PRI	NULL	
first_name	varchar(50)	NO		NULL	
last_name	varchar(50)	NO		NULL	
email	varchar(100)	NO	UNI	NULL	
equipment_id	int(11)	NO	MUL	NULL	

MEMBERS :

Stores information about gym members, including their names, email, and date of birth.

SYNTAX :

Desc Members;

OR

DESCRIBE Members;

STRUCTURE OF TABLE

```
22 •  DESCRIBE Trainers;
```

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

Field	Type	Null	Key	Default	Extra
trainer_id	int(11)	NO	PRI	NULL	
first_name	varchar(50)	NO		NULL	
last_name	varchar(50)	NO		NULL	
specialization	varchar(50)	YES		NULL	
equipment_id	int(11)	NO	MUL	NULL	

TRAINERS :

Contains details about gym trainers, their specializations, and experience levels.

SYNTAX :

DESC Trainers;

OR

DESCRIBE Trainers;

STRUCTURE OF TABLE

```
424 •  DESCRIBE Classes;
```

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

Field	Type	Null	Key	Default	Extra
class_id	int(11)	NO	PRI	NULL	
class_name	varchar(100)	NO		NULL	
trainer_id	int(11)	YES	MUL	NULL	
class_date	date	NO		NULL	
duration_minutes	int(11)	NO		NULL	

CLASSES :

Lists the various gym classes offered, along with their schedule, duration, and assigned trainers.

SYNTAX :

DESC Classes;

OR

DESCRIBE Classes;

STRUCTURE OF TABLE

```
desc equipment;
```

sult Grid | Filter Rows: | Export: | Wrap Cell Content:

Field	Type	Null	Key	Default	Extra
equipment_id	int(11)	NO	PRI	NULL	
equipment_name	varchar(100)	NO		NULL	
equipment_type	varchar(50)	NO		NULL	
purchase_date	date	NO		NULL	
maintenance_date	date	YES		NULL	

EQUIPMENT :

Records the gym equipment details, including type, purchase date, and maintenance schedule.

SYNTAX :

DESC Equipment;

OR

DESCRIBE Equipment;

STRUCTURE OF TABLE

```
DESCRIBE Memberships;
```

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

Field	Type	Null	Key	Default	Extra
membership_id	int(11)	NO	PRI	NULL	
member_id	int(11)	YES	MUL	NULL	
start_date	date	NO		NULL	
end_date	date	NO		NULL	
membership_type	varchar(50)	NO		NULL	

MEMBERSHIPS :

Tracks the membership plans for each member, including start and end dates.

SYNTAX :

DESC Memberships;

OR

DESCRIBE Memberships;

STRUCTURE OF TABLE

```
293 •  desc bookings;
294
```

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

Field	Type	Null	Key	Default	Extra
booking_id	int(11)	NO	PRI	NULL	
member_id	int(11)	YES	MUL	NULL	
class_id	int(11)	YES	MUL	NULL	
booking_date	date	NO		NULL	
booking_type	varchar(50)	NO		NULL	
status	varchar(20)	NO		NULL	

BOOKINGS :

Manages class bookings, noting which members have signed up for which classes and their booking status.

SYNTAX :

DESC Bookings;

OR

DESCRIBE Bookings;

```
select * from Members;
```

Result Grid | Filter Rows: | Edit: | Export/Import:

member_id	first_name	last_name	email	equipment_id
1	John	Doe	john.doe@example.com	1
2	Jane	Smith	jane.smith@example.com	3
3	Michael	Johnson	michael.johnson@example.com	5
4	Emily	Davis	emily.davis@example.com	2
5	Daniel	Garcia	daniel.garcia@example.com	6
6	Sarah	Martinez	sarah.martinez@example.com	7
7	David	Lopez	david.lopez@example.com	8
8	Laura	Gonzalez	laura.gonzalez@example.com	9
9	James	Wilson	james.wilson@example.com	10
10	Olivia	Lee	olivia.lee@example.com	12
11	Matthew	Anderson	matthew.anderson@example....	13
12	Sophia	Thomas	sophia.thomas@example.com	11
13	Joshua	Moore	joshua.moore@example.com	15
14	Ava	Taylor	ava.taylor@example.com	25
15	Christopher	Harris	christopher.harris@example.com	24
16	Isabella	Clark	isabella.clark@example.com	20
17	Ryan	Martinez	ryan.martinez@example.com	19
18	Mia	Rodriguez	mia.rodriguez@example.com	18
19	Andrew	Lewis	andrew.lewis@example.com	4
20	Charlotte	Walker	charlotte.walker@example.com	22
21	Joseph	Hall	joseph.hall@example.com	17
22	Ella	Allen	ella.allen@example.com	10
23	Benjamin	Young	benjamin.young@example.com	21
24	Liam	King	liam.king@example.com	18

CONTENTS OF TABLE

If you want to return all columns, without specifying every column name, you can use the SELECT * syntax:

SYNTAX :

SELECT * FROM Members;

```
SELECT * FROM Trainers;
```

Result Grid | Filter Rows: | Edit: | Export/Import:

trainer_id	first_name	last_name	specialization	equipment_id
1	Alex	Thompson	Yoga	8
2	Sophia	Hernandez	Cardio	14
3	Ethan	Miller	Strength Training	16
4	Ava	Davis	Pilates	13
5	Liam	Martinez	CrossFit	7
6	Olivia	Garcia	Aerobics	22
7	Noah	Rodriguez	Bodybuilding	8
8	Mia	Wilson	Zumba	5
9	Lucas	Anderson	Kickboxing	14
10	Isabella	Taylor	Personal Training	16
11	Mason	Thomas	HIIT	13
12	Emma	Jackson	Functional Training	17
13	Elijah	White	Cycling	25
14	Charlotte	Harris	Dance Fitness	20
15	Oliver	Clark	Strength and Co...	19
16	Amelia	Lewis	Boxing	18
17	James	Robinson	Sports Condition...	15
18	Harper	Walker	Core Training	7
19	Benjamin	Young	Flexibility Training	12
20	Evelyn	King	TRX	23
21	Lucas	Scott	Mixed Martial Arts	6
22	Ella	Green	Circuit Training	24
23	Jackson	Adams	Athletic Perform...	10
24	Grace	Baker	Rehabilitation	3

CONTENTS OF TABLE

If you want to return all columns, without specifying every column name, you can use the SELECT * syntax:

SYNTAX :

SELECT * FROM Trainers;

```
148 •  SELECT * FROM Classes;
149
```

Result Grid | Filter Rows: | Edit: | Export/Import

class_id	class_name	trainer_id	class_date	duration_minutes
1	Morning Yoga	1	2024-08-01	60
2	Cardio Blast	2	2024-08-02	45
3	Strength Circuit	3	2024-08-03	50
4	Pilates Mat	4	2024-08-04	60
5	CrossFit Essentials	5	2024-08-05	55
6	Aerobics for Beginners	6	2024-08-06	45
7	Advanced Bodybuilding	7	2024-08-07	75
8	Zumba Dance	8	2024-08-08	50
9	Kickboxing Basics	9	2024-08-09	60
10	Personal Training Session	10	2024-08-10	30
11	HIIT Workout	11	2024-08-11	40
12	Functional Training	12	2024-08-12	60
13	Indoor Cycling	13	2024-08-13	45
14	Dance Fitness	14	2024-08-14	50
15	Strength and Conditioning	15	2024-08-15	60
16	Boxing Drills	16	2024-08-16	70
17	Sports Conditioning	17	2024-08-17	55
18	Core Stability	18	2024-08-18	45
19	Flexibility Training	19	2024-08-19	40
20	TRX Suspension Training	20	2024-08-20	50
21	MMA Techniques	21	2024-08-21	60
22	Circuit Training	22	2024-08-22	45
23	Athletic Performance	23	2024-08-23	55
24	Rehabilitation Exercises	24	2024-08-24	40

CONTENTS OF TABLE

If you want to return all columns, without specifying every column name, you can use the SELECT * syntax:

SYNTAX :

```
SELECT * FROM Classes;
```

```
SELECT * FROM Equipment;
```

Result Grid | Filter Rows: | Edit: | Export/Import:

equipment_id	equipment_name	equipment_type	purchase_date	maintenance_date
1	Treadmill	Cardio	2022-01-15	2024-07-01
2	Elliptical	Cardio	2021-06-10	2024-06-10
3	Stationary Bike	Cardio	2021-12-05	2024-07-15
4	Rowing Machine	Cardio	2022-03-22	2024-07-22
5	Bench Press	Strength	2021-04-18	2024-05-18
6	Dumbbells Set	Strength	2020-08-25	2024-08-25
7	Kettlebells Set	Strength	2022-02-14	2024-07-30
8	Leg Press Machine	Strength	2021-09-30	2024-07-10
9	Squat Rack	Strength	2021-05-11	2024-05-11
10	Pull-up Bar	Bodyweight	2022-06-01	2024-06-01
11	TRX Straps	Functional	2020-12-20	2024-07-25
12	Yoga Mats	Flexibility	2021-03-03	2024-08-03
13	Resistance Bands	Functional	2022-05-17	2024-07-05
14	Medicine Balls	Functional	2021-07-22	2024-07-22
15	Barbells	Strength	2020-11-30	2024-11-30
16	Plyo Boxes	Plyometrics	2021-08-10	2024-08-10
17	Battle Ropes	Cardio	2021-10-05	2024-10-05
18	Foam Rollers	Recovery	2022-04-25	2024-07-20
19	Cable Machine	Strength	2021-01-12	2024-01-12
20	Smith Machine	Strength	2020-09-18	2024-09-18
21	Jump Ropes	Cardio	2022-07-07	2024-07-07
22	Punching Bag	Boxing	2021-11-21	2024-11-21
23	Spin Bikes	Cardio	2020-10-15	2024-10-15
24	Rowers	Cardio	2021-02-28	2024-08-01

CONTENTS OF TABLE

If you want to return all columns, without specifying every column name, you can use the SELECT * syntax:

SYNTAX :

```
SELECT * FROM Equipment;
```

```
240 •  SELECT * FROM  Memberships;
241
```

Result Grid | Filter Rows: | Edit: | Export/Import:

membership_id	member_id	start_date	end_date	membership_type
1	1	2024-01-01	2024-12-31	Standard
2	2	2024-02-01	2024-12-31	Premium
3	3	2024-03-01	2024-12-31	Basic
4	4	2024-04-01	2024-12-31	Standard
5	5	2024-05-01	2024-12-31	Premium
6	6	2024-06-01	2024-12-31	Basic
7	7	2024-07-01	2024-12-31	Standard
8	8	2024-08-01	2024-12-31	Premium
9	9	2024-09-01	2024-12-31	Basic
10	10	2024-10-01	2024-12-31	Standard
11	11	2024-11-01	2024-12-31	Premium
12	12	2024-01-01	2024-12-31	Basic
13	13	2024-02-01	2024-12-31	Standard
14	14	2024-03-01	2024-12-31	Premium
15	15	2024-04-01	2024-12-31	Basic
16	16	2024-05-01	2024-12-31	Standard
17	17	2024-06-01	2024-12-31	Premium
18	18	2024-07-01	2024-12-31	Basic
19	19	2024-08-01	2024-12-31	Standard
20	20	2024-09-01	2024-12-31	Premium
21	21	2024-10-01	2024-12-31	Basic
22	22	2024-11-01	2024-12-31	Standard
23	23	2024-01-01	2024-12-31	Premium
24	24	2024-02-01	2024-12-31	Basic

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CONTENTS OF TABLE

If you want to return all columns, without specifying every column name, you can use the SELECT * syntax:

SYNTAX :

```
SELECT * FROM  Memberships;
```

```
SELECT * FROM  Bookings;
```

Result Grid | Filter Rows: | Edit: | Export/Import:

booking_id	member_id	class_id	booking_date	booking_type	status
1	1	1	2024-07-01	Gold	Confirmed
2	2	2	2024-07-01	Gold	Cancelled
3	3	3	2024-07-02	Platinum	Confirmed
4	4	4	2024-07-02	Silver	Confirmed
5	5	5	2024-07-03	Silver	Pending
6	6	6	2024-07-03	Platinum	Confirmed
7	7	7	2024-07-04	Gold	Cancelled
8	8	8	2024-07-04	Silver	Confirmed
9	9	9	2024-07-05	Platinum	Pending
10	10	10	2024-07-05	Silver	Confirmed
11	11	11	2024-07-06	Gold	Confirmed
12	12	12	2024-07-06	Gold	Cancelled
13	13	13	2024-07-07	Gold	Pending
14	14	14	2024-07-07	Silver	Confirmed
15	15	15	2024-07-08	Platinum	Confirmed
16	16	16	2024-07-08	Gold	Pending
17	17	17	2024-07-09	Silver	Cancelled
18	18	18	2024-07-09	Silver	Confirmed
19	19	19	2024-07-10	Gold	Confirmed
20	20	20	2024-07-10	Platinum	Pending
21	21	21	2024-07-11	Silver	Cancelled
22	22	22	2024-07-11	Gold	Confirmed
23	23	23	2024-07-12	Platinum	Pending
24	24	24	2024-07-12	Gold	Confirmed

kings 5

CONTENTS OF TABLE

If you want to return all columns, without specifying every column name, you can use the SELECT * syntax:

SYNTAX :

```
SELECT * FROM  Bookings;
```

SUB QUERIES

Result Grid | Filter Rows: | Edit: | Export/Im

member_id	first_name	last_name
1	John	Doe
2	Jane	Smith
3	Michael	Johnson
4	Emily	Davis
5	Daniel	Garcia
6	Sarah	Martinez
7	David	Lopez
8	Laura	Gonzalez
9	James	Wilson
10	Olivia	Lee
11	Matthew	Anderson
12	Sophia	Thomas
13	Joshua	Moore
14	Ava	Taylor
15	Christopher	Harris
16	Isabella	Clark
17	Ryan	Martinez
18	Mia	Rodriguez
19	Andrew	Lewis
20	Charlotte	Walker
21	Joseph	Hall
22	Ella	Allen
23	Benjamin	Young
24	Liam	King
25	Mason	Wright

Members 2

SUBQUERY

Display members who have booked classes with low participation.

SYNTAX :

```
SELECT member_id, first_name,last_name FROM Members
WHERE member_id = ANY (SELECT b.member_id
FROM Bookings b WHERE b.class_id = ANY (
 SELECT class_id FROM Bookings GROUP BY class_id
 HAVING
 COUNT(DISTINCT member_id) < (SELECT
 COUNT(member_id) FROM Members)));
```

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Result Grid | Filter Rows: | Export: | Wrap Cell C

first_name	last_name
John	Doe
Jane	Smith
Michael	Johnson
Emily	Davis
Daniel	Garcia
Sarah	Martinez
David	Lopez
Laura	Gonzalez
James	Wilson
Olivia	Lee
Matthew	Anderson
Sophia	Thomas
Joshua	Moore
Ava	Taylor
Christopher	Harris
Isabella	Clark
Ryan	Martinez
Mia	Rodriguez
Andrew	Lewis
Charlotte	Walker
Joseph	Hall
Ella	Allen
Benjamin	Young
Liam	King
Mason	Wright

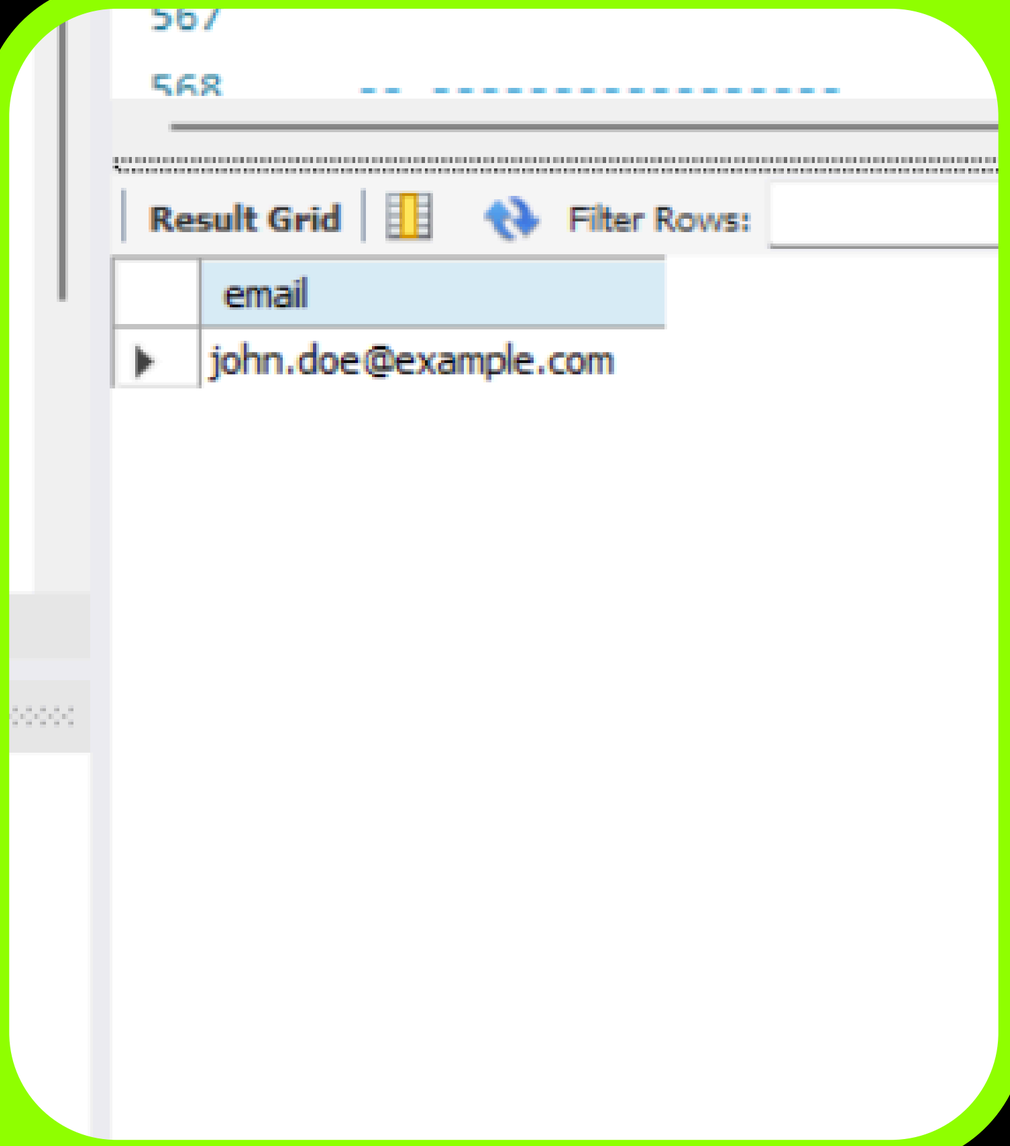
Members 4

SUBQUERY

Find the names of members who have booked any class on the same date as the 'Zumba Dance' class.

SYNTAX :

```
SELECT first_name, last_name
FROM Members
WHERE member_id IN (
    SELECT member_id
    FROM Bookings
    WHERE booking_date = (SELECT booking_date FROM
Classes WHERE class_name = 'Zumba Dance')
);
```



SUBQUERY

Find the email addresses of members who have booked the class 'Morning Yoga'.

SYNTAX:

```
SELECT email
FROM Members
WHERE member_id IN (SELECT member_id FROM
Bookings WHERE class_id =
(SELECT class_id FROM Classes WHERE class_name =
'Morning Yoga'));
```

Result Grid | Filter Rows: | Export: | Wrap C

first_name	last_name
Alex	Thompson
Sophia	Hernandez
Ethan	Miller
Ava	Davis
Liam	Martinez
Olivia	Garcia
Noah	Rodriguez
Mia	Wilson
Lucas	Anderson
Isabella	Taylor
Mason	Thomas
Emma	Jackson
Elijah	White
Charlotte	Harris
Oliver	Clark
Amelia	Lewis
James	Robinson
Harper	Walker
Benjamin	Young
Evelyn	King
Lucas	Scott
Ella	Green
Jackson	Adams
Grace	Baker
Henry	Gonzalez

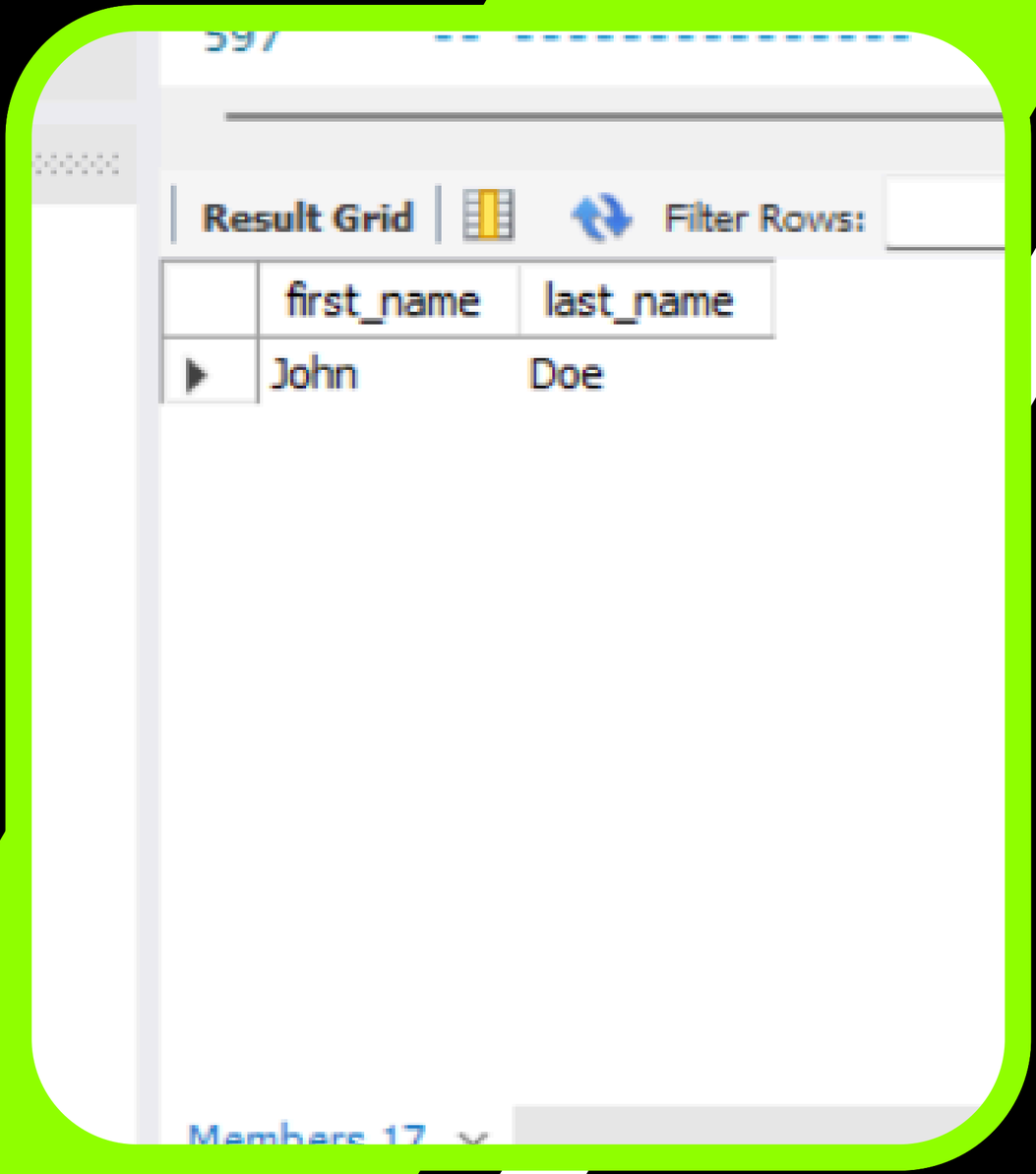
Trainers 16

SUBQUERY

Find the names of trainers who have conducted classes with less than 5 bookings.

SYNTAX :

```
SELECT first_name, last_name
FROM Trainers
WHERE trainer_id IN (SELECT trainer_id FROM Classes
WHERE class_id IN
(SELECT class_id FROM Bookings GROUP BY class_id
HAVING COUNT(booking_id) < 5));
```



SUBQUERY

Find members who have booked a specific class (e.g., 'Morning Yoga')

SYNTAX:

```
SELECT first_name, last_name
FROM Members
WHERE member_id IN (SELECT member_id FROM
Bookings WHERE class_id = 1);
```

JOIN QUERIES

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

first_name	last_name	class_name	booking_date	status
John	Doe	Morning Yoga	2024-07-01	Confirmed
Jane	Smith	Cardio Blast	2024-07-01	Cancelled
Michael	Johnson	Strength Circuit	2024-07-02	Confirmed
Emily	Davis	Pilates Mat	2024-07-02	Confirmed
Daniel	Garcia	CrossFit Essentials	2024-07-03	Pending
Sarah	Martinez	Aerobics for Beginners	2024-07-03	Confirmed
David	Lopez	Advanced Bodybuilding	2024-07-04	Cancelled
Laura	Gonzalez	Zumba Dance	2024-07-04	Confirmed
James	Wilson	Kickboxing Basics	2024-07-05	Pending
Olivia	Lee	Personal Training Session	2024-07-05	Confirmed
Matthew	Anderson	HIIT Workout	2024-07-06	Confirmed
Sophia	Thomas	Functional Training	2024-07-06	Cancelled
Joshua	Moore	Indoor Cycling	2024-07-07	Pending
Ava	Taylor	Dance Fitness	2024-07-07	Confirmed
Christopher	Harris	Strength and Conditioning	2024-07-08	Confirmed
Isabella	Clark	Boxing Drills	2024-07-08	Pending
Ryan	Martinez	Sports Conditioning	2024-07-09	Cancelled
Mia	Rodriguez	Core Stability	2024-07-09	Confirmed
Andrew	Lewis	Flexibility Training	2024-07-10	Confirmed
Charlotte	Walker	TRX Suspension Training	2024-07-10	Pending
Joseph	Hall	MMA Techniques	2024-07-11	Cancelled
Ella	Allen	Circuit Training	2024-07-11	Confirmed
Benjamin	Young	Athletic Performance	2024-07-12	Pending
Liam	King	Rehabilitation Exercises	2024-07-12	Confirmed

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JOIN QUERY

Display member participation and the status of their bookings.

SYNTAX :

```
SELECT
    Members.first_name,
    Members.last_name,
    Classes.class_name,
    Bookings.booking_date,
    Bookings.status
FROM
    Bookings
INNER JOIN
    Members ON Bookings.member_id = Members.member_id
INNER JOIN
    Classes ON Bookings.class_id = Classes.class_id;
```

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Result Grid | Filter Rows: | Ex

member_id	first_name	last_name	total_bookings
1	John	Doe	1
9	James	Wilson	1
17	Ryan	Martinez	1
25	Mason	Wright	1
6	Sarah	Martinez	1

JOINQUERY

The purpose of this query is to retrieve the top 5 members with the highest number of bookings in the gym.

SYNTAX:

```
SELECT
    m.member_id,
    m.first_name,
    m.last_name,
    COUNT(b.booking_id) AS total_bookings
FROM
    Members m
JOIN
    Bookings b ON m.member_id = b.member_id
GROUP BY
    m.member_id, m.first_name, m.last_name
ORDER BY
    total_bookings DESC
LIMIT 5;
```

JOIN QUERY

class_name	number_of_bookings
Advanced Bodybuilding	1
Aerobics for Beginners	1
Athletic Performance	1
Boxing Drills	1
Cardio Blast	1
Circuit Training	1
Core Stability	1
CrossFit Essentials	1
Dance Fitness	1
Flexibility Training	1
Functional Training	1
HIIT Workout	1
Indoor Cycling	1
Kickboxing Basics	1
MMA Techniques	1
Morning Yoga	1
Outdoor Training	1
Personal Training Sess...	1
Pilates Mat	1
Rehabilitation Exercises	1
Sports Conditioning	1
Strength and Conditio...	1
Strength Circuit	1
TRX Suspension Training	1

DISPLAY NUMBER OF BOOKING FOR EACH CLASS

SYNTAX :

```
SELECT
    Classes.class_name,
    COUNT(Bookings.member_id) AS number_of_bookings
FROM
    Classes
LEFT JOIN
    Bookings ON Classes.class_id = Bookings.class_id
GROUP BY
    Classes.class_name;
```

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

first_name	specialization	class_name	class_date
Alex	Yoga	Morning Yoga	2024-08-01
Sophia	Cardio	Cardio Blast	2024-08-02
Ethan	Strength Training	Strength Circuit	2024-08-03
Ava	Pilates	Pilates Mat	2024-08-04
Liam	CrossFit	CrossFit Essentials	2024-08-05
Olivia	Aerobics	Aerobics for Beginners	2024-08-06
Noah	Bodybuilding	Advanced Bodybuilding	2024-08-07
Mia	Zumba	Zumba Dance	2024-08-08
Lucas	Kickboxing	Kickboxing Basics	2024-08-09
Isabella	Personal Training	Personal Training Session	2024-08-10
Mason	HIIT	HIIT Workout	2024-08-11
Emma	Functional Training	Functional Training	2024-08-12
Elijah	Cycling	Indoor Cycling	2024-08-13
Charlotte	Dance Fitness	Dance Fitness	2024-08-14
Oliver	Strength and Co...	Strength and Conditioning	2024-08-15
Amelia	Boxing	Boxing Drills	2024-08-16
James	Sports Condition...	Sports Conditioning	2024-08-17
Harper	Core Training	Core Stability	2024-08-18
Benjamin	Flexibility Training	Flexibility Training	2024-08-19
Evelyn	TRX	TRX Suspension Training	2024-08-20
Lucas	Mixed Martial Arts	MMA Techniques	2024-08-21
Ella	Circuit Training	Circuit Training	2024-08-22
Jackson	Athletic Perform...	Athletic Performance	2024-08-23
Grace	Rehabilitation	Rehabilitation Exercises	2024-08-24

Result 17

JOIN QUERY

Display All Trainers and Their Assigned Classes, Including Trainers

SYNTAX :

```
SELECT
    Trainers.first_name,
    Trainers.specialization,
    Classes.class_name,
    Classes.class_date
FROM
    Classes
RIGHT JOIN
    Trainers ON Classes.trainer_id = Trainers.trainer_id;
```

VIEW

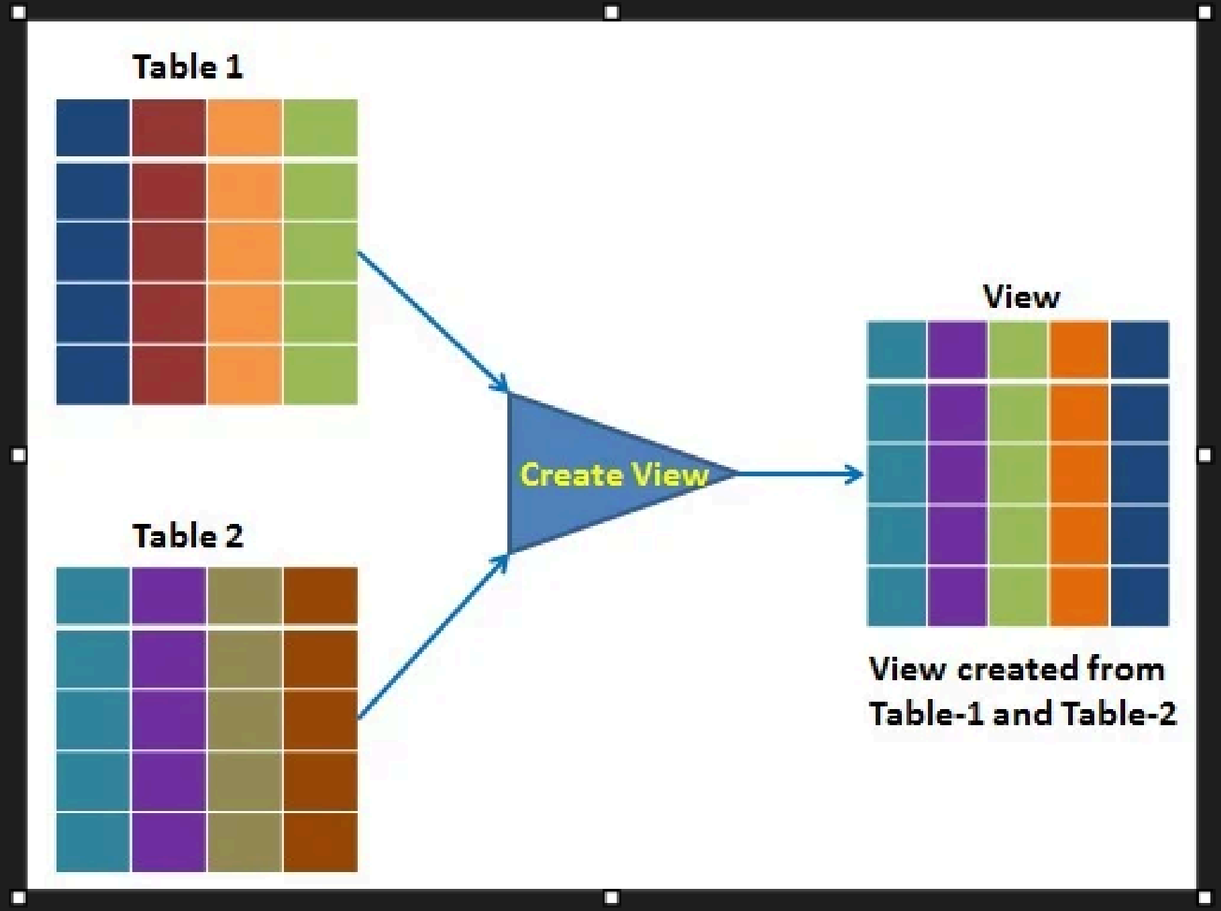
Table 1
Table 2
Create View
View
View created from
Table-1 and Table-2

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

member_id	first_name	membership_type	start_date	end_date
1	John	Standard	2024-01-01	2024-12-31
2	Jane	Premium	2024-02-01	2024-12-31
3	Michael	Basic	2024-03-01	2024-12-31
4	Emily	Standard	2024-04-01	2024-12-31
5	Daniel	Premium	2024-05-01	2024-12-31
6	Sarah	Basic	2024-06-01	2024-12-31
7	David	Standard	2024-07-01	2024-12-31
8	Laura	Premium	2024-08-01	2024-12-31
9	James	Basic	2024-09-01	2024-12-31
10	Olivia	Standard	2024-10-01	2024-12-31
11	Matthew	Premium	2024-11-01	2024-12-31
12	Sophia	Basic	2024-01-01	2024-12-31
13	Joshua	Standard	2024-02-01	2024-12-31
14	Ava	Premium	2024-03-01	2024-12-31
15	Christopher	Basic	2024-04-01	2024-12-31
16	Isabella	Standard	2024-05-01	2024-12-31
17	Ryan	Premium	2024-06-01	2024-12-31
18	Mia	Basic	2024-07-01	2024-12-31
19	Andrew	Standard	2024-08-01	2024-12-31
20	Charlotte	Premium	2024-09-01	2024-12-31
21	Joseph	Basic	2024-10-01	2024-12-31
22	Ella	Standard	2024-11-01	2024-12-31
23	Benjamin	Premium	2024-01-01	2024-12-31
24	Liam	Basic	2024-02-01	2024-12-31
25	Mason	Standard	2024-03-01	2024-12-31

Active_Members 22

VIEW

Display active members, including their membership details. It helps in quickly identifying members who have valid memberships

SYNTAX :

```
CREATE VIEW Active_Members AS
SELECT
    m.member_id, m.first_name, ms.membership_type,
    ms.start_date, ms.end_date

FROM
    Members m
INNER JOIN
    Memberships ms ON m.member_id = ms.member_id
WHERE
    ms.end_date >= CURDATE();

    select * from Active_Members;
```

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

equipment_id	equipment_name	equipment_type	last_maintenance_date
1	Treadmill	Cardio	2024-07-01
2	Elliptical	Cardio	2024-06-10
3	Stationary Bike	Cardio	2024-07-15
4	Rowing Machine	Cardio	2024-07-22
5	Bench Press	Strength	2024-05-18
6	Dumbbells Set	Strength	2024-08-25
7	Kettlebells Set	Strength	2024-07-30
8	Leg Press Machine	Strength	2024-07-10
9	Squat Rack	Strength	2024-05-11
10	Pull-up Bar	Bodyweight	2024-06-01
11	TRX Straps	Functional	2024-07-25
12	Yoga Mats	Flexibility	2024-08-03
13	Resistance Bands	Functional	2024-07-05
14	Medicine Balls	Functional	2024-07-22
15	Barbells	Strength	2024-11-30
16	Plyo Boxes	Plyometrics	2024-08-10
17	Battle Ropes	Cardio	2024-10-05
18	Foam Rollers	Recovery	2024-07-20
19	Cable Machine	Strength	2024-01-12
20	Smith Machine	Strength	2024-09-18
21	Jump Ropes	Cardio	2024-07-07
22	Punching Bag	Boxing	2024-11-21
23	Spin Bikes	Cardio	2024-10-15
24	Rowers	Cardio	2024-08-01
25	Sandbags	Functional	2024-08-12

EquipmentUsage 23

Output

VIEW

This view provides an overview of equipment usage, including the number of times each equipment piece has been used in bookings and the last maintenance date.

SYNTAX :

```
CREATE VIEW EquipmentUsage AS
SELECT
    e.equipment_id,
    e.equipment_name,
    e.equipment_type,

    MAX(e.maintenance_date) AS last_maintenance_date
FROM
    Equipment e
LEFT JOIN
    Bookings b ON e.equipment_id = b.booking_id
GROUP BY
    e.equipment_id, e.equipment_name, e.equipment_type;
```

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

first_name	last_name	class_name
John	Doe	Morning Yoga
Jane	Smith	Cardio Blast
Michael	Johnson	Strength Circuit
Emily	Davis	Pilates Mat
Daniel	Garcia	CrossFit Ess
Sarah	Martinez	Aerobics for Beginners
David	Lopez	Advanced Bodybuilding
Laura	Gonzalez	Zumba Dance
James	Wilson	Kickboxing Basics
Olivia	Lee	Personal Training Session
Matthew	Anderson	HIIT Workout
Sophia	Thomas	Functional Training
Joshua	Moore	Indoor Cycling
Ava	Taylor	Dance Fitness
Christopher	Harris	Strength and Conditioning
Isabella	Clark	Boxing Drills
Ryan	Martinez	Sports Conditioning
Mia	Rodriguez	Core Stability
Andrew	Lewis	Flexibility Training
Charlotte	Walker	TRX Suspension Training
Joseph	Hall	MMA Techniques
Ella	Allen	Circuit Training
Benjamin	Young	Athletic Performance
Liam	King	Rehabilitation Exercises
Mason	Wright	Outdoor Training

CrossFit Essentials

MemberClassBookings 27

Output

VIEW

display the first and last names of members along with the names of the classes they have booked:
sql

SYNTAX :

```
CREATE VIEW MemberClassBookings AS
SELECT
    m.first_name, m.last_name, c.class_name

FROM
    Members m
INNER JOIN
    Bookings b ON m.member_id = b.member_id
INNER JOIN
    Classes c ON b.class_id = c.class_id;

select * from MemberClassBookings;
```

PREPARED BY :

Anil.Pawale

IT VEDANT

THANK YOU