

Gym Management System

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A Gym Database

System created to manage member information, handle payments, track workout programs and overall organize a gym's information



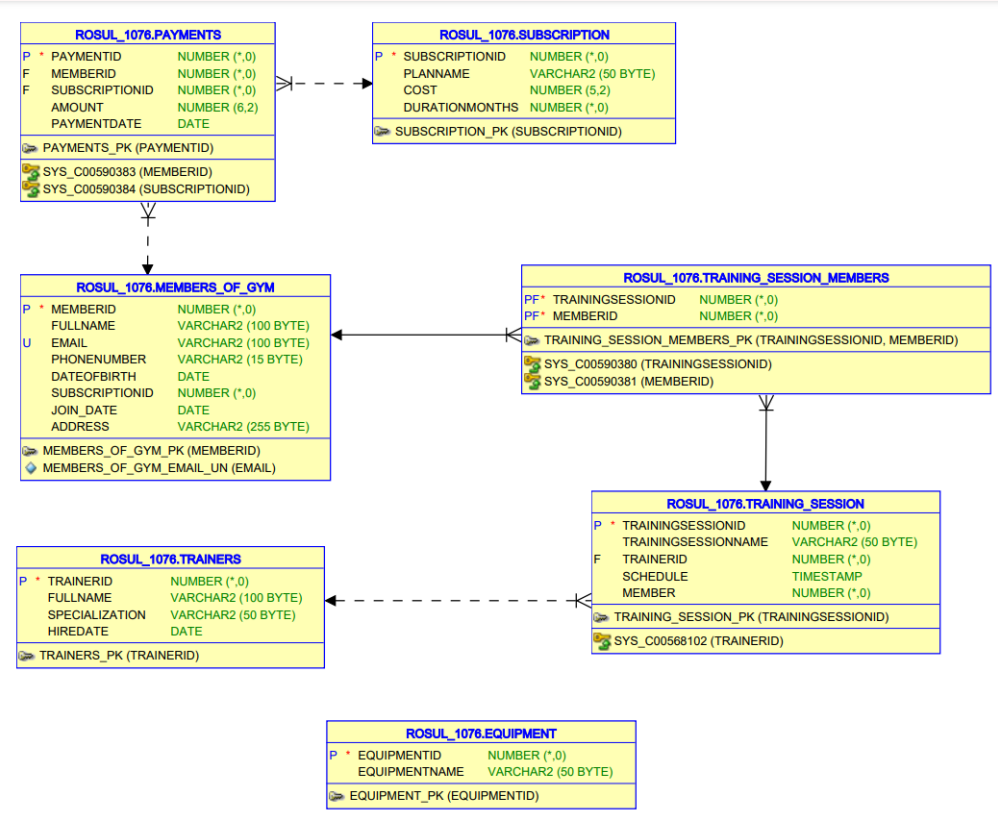
Why this subject?

Gyms are essential for fostering healthier lifestyles, providing a structured and supportive environment for individuals to engage in physical activity. Regular exercise is a cornerstone of physical and mental well-being, reducing the risk of chronic illnesses such as heart disease, diabetes, and obesity while also boosting mental health by alleviating stress and improving mood. In an era where sedentary lifestyles and busy schedules are common, gyms offer accessible opportunities for people to prioritize their health through professional guidance, specialized equipment, and community-driven activities.

Beyond physical benefits, gyms also encourage social connections and personal growth, making them a vital resource for individuals striving to lead balanced and active lives. The fitness industry's focus on health, wellness, and community impact underscores its importance and relevance, making it an ideal subject for this database project.

DATABASE SCHEMA

- The database schema of the gym is the following:

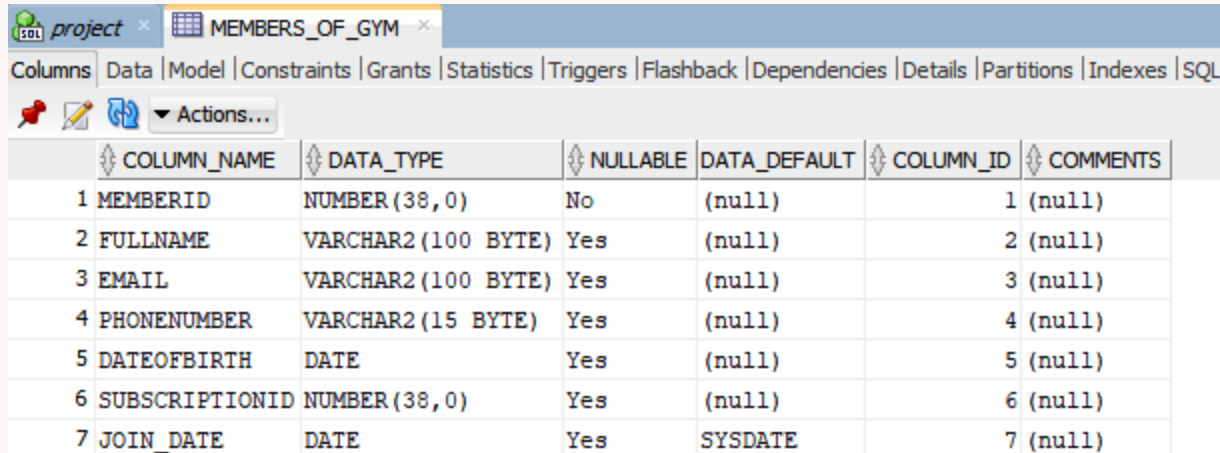


A short description of the tables

- This project consists of 7 interconnected tables designed to manage a gym's operations efficiently. The **MEMBERS_OF_GYM** table stores member details, while **TRAINERS** holds information about gym trainers. **TRAINING_SESSION** and **TRAINING_SESSION_MEMBERS** manage scheduling and member participation in sessions. The **EQUIPMENT** table tracks gym equipment, **SUBSCRIPTION** handles membership plans, and **PAYMENTS** records financial transactions. Together, these tables provide a comprehensive framework for managing gym activities and resources.

Below are 7 images showcasing the tables (on the left) and their corresponding code (on the right)

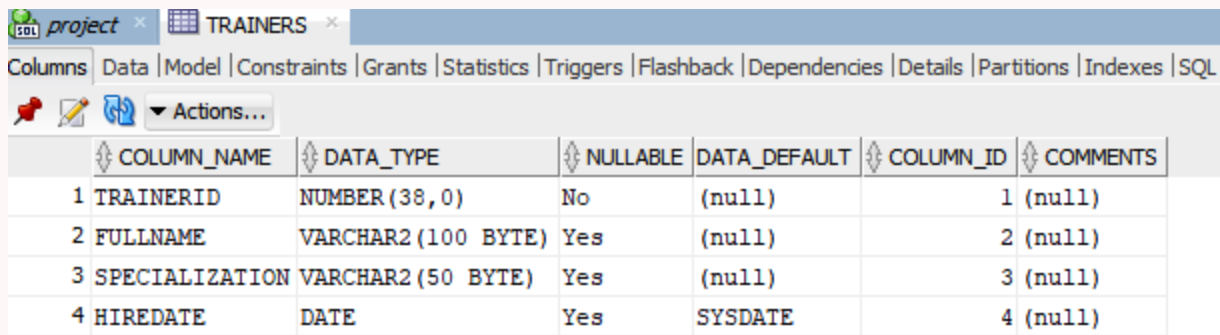
I will start with the first 2 tables, namely: 'MEMBERS_OF_GYM' and 'TRAINERS'



The screenshot shows the SQL Developer interface with the 'MEMBERS_OF_GYM' table selected. The 'Columns' tab is active, displaying a table with 7 columns: COLUMN_NAME, DATA_TYPE, NULLABLE, DATA_DEFAULT, COLUMN_ID, and COMMENTS. The data is as follows:

	COLUMN_NAME	DATA_TYPE	NULLABLE	DATA_DEFAULT	COLUMN_ID	COMMENTS
1	MEMBERID	NUMBER(38,0)	No	(null)	1 (null)	
2	FULLNAME	VARCHAR2(100 BYTE)	Yes	(null)	2 (null)	
3	EMAIL	VARCHAR2(100 BYTE)	Yes	(null)	3 (null)	
4	PHONENUMBER	VARCHAR2(15 BYTE)	Yes	(null)	4 (null)	
5	DATEOFBIRTH	DATE	Yes	(null)	5 (null)	
6	SUBSCRIPTIONID	NUMBER(38,0)	Yes	(null)	6 (null)	
7	JOIN_DATE	DATE	Yes	SYSDATE	7 (null)	

```
--1. Constructing the database tables
CREATE TABLE "MEMBERS_OF_GYM" (
    MemberID INT PRIMARY KEY,
    FullName VARCHAR(100),
    Email VARCHAR(100) UNIQUE,
    PhoneNumber VARCHAR(15),
    DateOfBirth DATE,
    SubscriptionID INT,
    JOIN_DATE DATE DEFAULT SYSDATE
);
```



The screenshot shows the SQL Developer interface with the 'TRAINERS' table selected. The 'Columns' tab is active, displaying a table with 4 columns: COLUMN_NAME, DATA_TYPE, NULLABLE, DATA_DEFAULT, COLUMN_ID, and COMMENTS. The data is as follows:

	COLUMN_NAME	DATA_TYPE	NULLABLE	DATA_DEFAULT	COLUMN_ID	COMMENTS
1	TRAINERID	NUMBER(38,0)	No	(null)	1 (null)	
2	FULLNAME	VARCHAR2(100 BYTE)	Yes	(null)	2 (null)	
3	SPECIALIZATION	VARCHAR2(50 BYTE)	Yes	(null)	3 (null)	
4	HIREDATE	DATE	Yes	SYSDATE	4 (null)	

```
CREATE TABLE "TRAINERS" (
    TrainerID INT PRIMARY KEY,
    FullName VARCHAR(100),
    Specialization VARCHAR(50),
    HireDate DATE DEFAULT SYSDATE
);
```


Next, we have: 'EQUIPMENT' and 'SUBSCRIPTION'

project x EQUIPMENT x

Columns Data | Model | Constraints | Grants | Statistics | Triggers | Flashback | Dependencies | Details | Partitions | Indexes | SQL

Actions...

	COLUMN_NAME	DATA_TYPE	NULLABLE	DATA_DEFAULT	COLUMN_ID	COMMENTS
1	EQUIPMENTID	NUMBER(38,0)	No	(null)	1	(null)
2	EQUIPMENTNAME	VARCHAR2(50 BYTE)	Yes	(null)	2	(null)

```
CREATE TABLE "EQUIPMENT" (  
    EquipmentID INT PRIMARY KEY,  
    EquipmentName VARCHAR(50)  
);
```

project x SUBSCRIPTION x

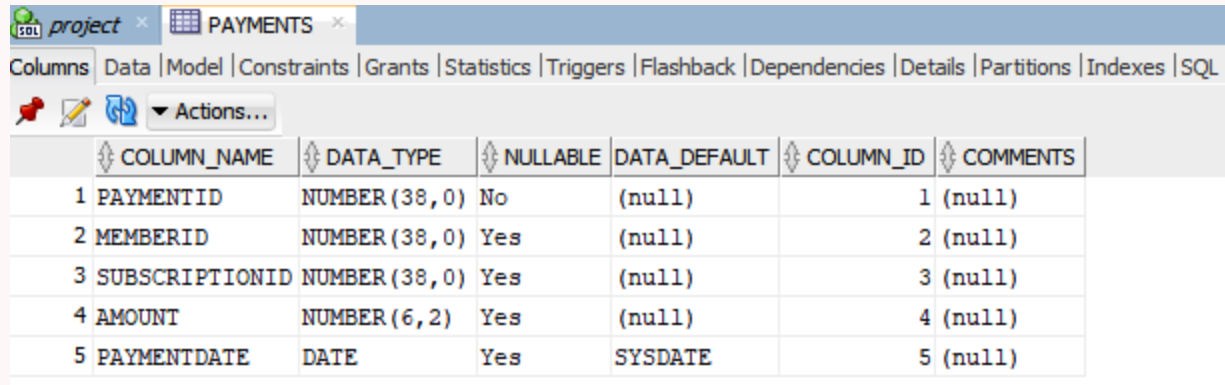
Columns Data | Model | Constraints | Grants | Statistics | Triggers | Flashback | Dependencies | Details | Partitions | Indexes | SQL

Actions...

	COLUMN_NAME	DATA_TYPE	NULLABLE	DATA_DEFAULT	COLUMN_ID	COMMENTS
1	SUBSCRIPTIONID	NUMBER(38,0)	No	(null)	1	(null)
2	PLANNAME	VARCHAR2(50 BYTE)	Yes	(null)	2	(null)
3	COST	NUMBER(5,2)	Yes	(null)	3	(null)
4	DURATIONMONTHS	NUMBER(38,0)	Yes	(null)	4	(null)

```
CREATE TABLE "SUBSCRIPTION" (  
    SubscriptionID INT PRIMARY KEY,  
    PlanName VARCHAR(50),  
    Cost DECIMAL(5, 2), --for 5 digits with 2 digits after decimal point  
    DurationMonths INT  
);
```

Lastly, marking the end of the 'CREATE TABLE' phase, we have: 'PAYMENTS'



The screenshot shows a database management tool interface with a tab labeled 'project' and a sub-tab labeled 'PAYMENTS'. Below the tabs is a navigation bar with options: Columns, Data, Model, Constraints, Grants, Statistics, Triggers, Flashback, Dependencies, Details, Partitions, Indexes, and SQL. Below the navigation bar is a toolbar with icons for a red pin, a pencil, a blue link, and a dropdown menu labeled 'Actions...'. The main area displays a table structure for 'PAYMENTS' with the following columns:

	COLUMN_NAME	DATA_TYPE	NULLABLE	DATA_DEFAULT	COLUMN_ID	COMMENTS
1	PAYMENTID	NUMBER(38,0)	No	(null)	1	(null)
2	MEMBERID	NUMBER(38,0)	Yes	(null)	2	(null)
3	SUBSCRIPTIONID	NUMBER(38,0)	Yes	(null)	3	(null)
4	AMOUNT	NUMBER(6,2)	Yes	(null)	4	(null)
5	PAYMENTDATE	DATE	Yes	SYSDATE	5	(null)

```
CREATE TABLE PAYMENTS (  
    PaymentID INT PRIMARY KEY,  
    MemberID INT,  
    SubscriptionID INT,  
    Amount DECIMAL(6, 2),  
    PaymentDate DATE DEFAULT SYSDATE,  
    FOREIGN KEY (MemberID) REFERENCES MEMBERS_OF_GYM(MemberID),  
    FOREIGN KEY (SubscriptionID) REFERENCES SUBSCRIPTION(SubscriptionsID)  
);
```


For the next step, I have inserted values into the 'MEMBERS_OF_GYM' table to populate it with relevant member data.

```
--2. Using DML Statements
--inserting members of the gym
INSERT INTO MEMBERS_OF_GYM (MemberID, FullName, Email, PhoneNumber, DateOfBirth, SubscriptionID)
VALUES (1, 'John Doe', 'john.doe@gmail.com', '0234567890', TO_DATE('1990-05-15', 'YYYY-MM-DD'), 101);
INSERT INTO MEMBERS_OF_GYM (MemberID, FullName, Email, PhoneNumber, DateOfBirth, SubscriptionID)
VALUES (2, 'Mike Johnson', 'mike.johnson@gmail.com', '0987654321', TO_DATE('1995-07-20', 'YYYY-MM-DD'), 102);
INSERT INTO MEMBERS_OF_GYM (MemberID, FullName, Email, PhoneNumber, DateOfBirth, SubscriptionID)
VALUES (3, 'Alice Matthews', 'alicematthwes@gmail.com', '0234098765', TO_DATE('1998-10-25', 'YYYY-MM-DD'), 103);
INSERT INTO MEMBERS_OF_GYM (MemberID, FullName, Email, PhoneNumber, DateOfBirth, SubscriptionID)
VALUES (4, 'Andrew Joe', 'andrewjoe@gmail.com', '0432167890', TO_DATE('1999-11-04', 'YYYY-MM-DD'), 104);
INSERT INTO MEMBERS_OF_GYM (MemberID, FullName, Email, PhoneNumber, DateOfBirth, SubscriptionID)
VALUES (5, 'John Smith', 'johnsmith@gmail.com', '0238495607', TO_DATE('1993-07-21', 'YYYY-MM-DD'), 105);
INSERT INTO MEMBERS_OF_GYM (MemberID, FullName, Email, PhoneNumber, DateOfBirth, SubscriptionID)
VALUES (6, 'Daniel Miller', 'danielmiller@gmail.com', '0659231837', TO_DATE('2003-02-20', 'YYYY-MM-DD'), 106);
INSERT INTO MEMBERS_OF_GYM (MemberID, FullName, Email, PhoneNumber, DateOfBirth, SubscriptionID)
VALUES (7, 'Emma Martinez', 'emma.martinez@gmail.com', '0436586978', TO_DATE('1998-10-25', 'YYYY-MM-DD'), 107);
INSERT INTO MEMBERS_OF_GYM (MemberID, FullName, Email, PhoneNumber, DateOfBirth, SubscriptionID)
VALUES (8, 'Sophia Brown', 'sophiabrown@gmail.com', '0475697821', TO_DATE('1999-11-04', 'YYYY-MM-DD'), 108);
INSERT INTO MEMBERS_OF_GYM (MemberID, FullName, Email, PhoneNumber, DateOfBirth, SubscriptionID)
VALUES (9, 'Michael Williams', 'michaelwilliams@gmail.com', '0348695869', TO_DATE('2002-06-04', 'YYYY-MM-DD'), 109);
INSERT INTO MEMBERS_OF_GYM (MemberID, FullName, Email, PhoneNumber, DateOfBirth, SubscriptionID)
VALUES (10, 'Olivia Garcia', 'oliviagarcia@gmail.com', '0492182738', TO_DATE('2001-04-04', 'YYYY-MM-DD'), 110);
```

	MEMBE...	FULLNAME	EMAIL	PHONENUMBER	DATEOFBIRTH	SUBSCRIPTIONID	JOIN_DATE	ADDRESS
1		1 Michael Doe	michaeldoe@gmail.com	0737217263	10-MAY-90		1 18-JAN-25	(null)
2		2 Mike Johnson	mike.johnson@gmail.com	0987654321	20-JUL-95		102 22-JAN-25	(null)
3		3 Alice Matthews	alicematthwes@gmail.com	1234098765	25-OCT-98		103 21-JAN-25	(null)
4		4 Andrew Joe	andrewjoe@gmail.com	5432167890	04-NOV-99		104 21-JAN-25	(null)
5		5 Emily Davis	emily.davis@gmail.com	111111111	18-MAR-92		101 20-JAN-25	(null)
6		6 Daniel Miller	danielmiller@gmail.com	0659231837	20-FEB-03		106 22-JAN-25	(null)
7		7 Emma Martinez	emma.martinez@gmail.com	0436586978	25-OCT-98		107 22-JAN-25	(null)
8		8 Sophia Brown	sophiabrown@gmail.com	0475697821	04-NOV-99		108 22-JAN-25	(null)
9		9 Michael Williams	michaelwilliams@gmail.com	0348695869	04-JUN-02		109 22-JAN-25	(null)
10		10 Olivia Garcia	oliviagarcia@gmail.com	0492182738	04-APR-01		110 22-JAN-25	(null)

Next, I inserted data into the 'TRAINERS' table and the 'TRAINING_SESSION' . Since it's a small gym, we have three trainers listed and three types of training sessions in the system.

Data corresponding to 'TRAINERS'

```
--inserting trainers
INSERT INTO TRAINERS (TrainerID, FullName, Specialization, HireDate)
VALUES (1, 'Mike Johnson', 'Weightlifting', TO_DATE('2000-03-22', 'YYYY-MM-DD'));
INSERT INTO TRAINERS (TrainerID, FullName, Specialization, HireDate)
VALUES (2, 'John Michael', 'Losing weight', TO_DATE('1998-05-27', 'YYYY-MM-DD'));
INSERT INTO TRAINERS (TrainerID, FullName, Specialization, HireDate)
VALUES (3, 'Sarah Connor', 'Yoga', TO_DATE('1999-07-17', 'YYYY-MM-DD'));
```

	⚡ TRAINERID	⚡ FULLNAME	⚡ SPECIALIZATION	⚡ HIREDATE
1	1	Mike Johnson	Powerlifting	22-MAR-00
2	2	John Michael	Losing weight	27-MAY-98
3	3	Sarah Connor	Yoga	17-JUL-99

Data corresponding to 'TRAINING_SESSION

```
--inserting training sessions
INSERT INTO TRAINING_SESSION (TrainingSessionID, TrainingSessionName, TrainerID, Schedule)
VALUES (1, 'Morning Cardio', 2, TO_DATE('2025-05-10 08:00:00', 'YYYY-MM-DD HH24:MI:SS'));
INSERT INTO TRAINING_SESSION (TrainingSessionID, TrainingSessionName, TrainerID, Schedule)
VALUES (2, 'Strength training', 1, TO_DATE('2025-05-11 15:00:00', 'YYYY-MM-DD HH24:MI:SS'));
INSERT INTO TRAINING_SESSION (TrainingSessionID, TrainingSessionName, TrainerID, Schedule)
VALUES (3, 'Pilates', 3, TO_DATE('2025-05-12 10:30:00', 'YYYY-MM-DD HH24:MI:SS'));
```

	⚡ TRAININGSESSIONID	⚡ TRAININGSESSIONNAME	⚡ TRAINERID	⚡ SCHEDULE	⚡ MEMBER
1	1	Morning Cardio	2	10-MAY-25 08.00.00.0000000000 AM	(null)
2	2	Strength training	1	11-MAY-25 03.00.00.0000000000 PM	(null)
3	3	Pilates	3	12-MAY-25 10.30.00.0000000000 AM	(null)

The next set of data inserted was for the 'EQUIPMENT' table, where details of the gym's equipment were added.

```
--inserting equipment
INSERT INTO EQUIPMENT (EquipmentID, EquipmentName) VALUES (1, 'Treadmill');
INSERT INTO EQUIPMENT (EquipmentID, EquipmentName) VALUES (2, 'Dumbbells');
INSERT INTO EQUIPMENT (EquipmentID, EquipmentName) VALUES (3, 'Barbells');
INSERT INTO EQUIPMENT (EquipmentID, EquipmentName) VALUES (4, 'Row Machine');
INSERT INTO EQUIPMENT (EquipmentID, EquipmentName) VALUES (5, 'Cardio Bike');
INSERT INTO EQUIPMENT (EquipmentID, EquipmentName) VALUES (6, 'Cardio Climbing Stairs');
INSERT INTO EQUIPMENT (EquipmentID, EquipmentName) VALUES (7, 'Squat Bar');
INSERT INTO EQUIPMENT (EquipmentID, EquipmentName) VALUES (8, 'Chest Machine');
```

	⚡ EQUIPMENTID	⚡ EQUIPMENTNAME
1	1	Treadmill
2	2	Dumbbells
3	3	Barbells
4	4	Row Machine
5	5	Cardio Bike
6	6	Cardio Climbing Stairs
7	7	Squat Bar
8	8	Chest Machine

Next i added 2 types of subscriptions: 'Basic Plan' and 'Premium Plan'

The 'Basic Plan' is cheaper and only lasts 1 month.

The 'Premium Plan', while being more expensive lasts up to 3 months.

```
--inserting subscription types
INSERT INTO SUBSCRIPTION (SubscriptionID, PlanName, Cost, DurationMonths)
VALUES (101, 'Basic Plan', 50.00, 1);
INSERT INTO SUBSCRIPTION (SubscriptionID, PlanName, Cost, DurationMonths)
VALUES (102, 'Premium Plan', 100.00, 3);
```

101	Basic Plan	50	1
102	Premium Plan	100	3

Going forward, I used a 'MERGE' command to check if a member exists in the table 'MEMBERS_OF_GYM.

If they exist, their phone number is updated.

If they do not exist, their phone number is added.

```
--using MERGE to check if a members exists in the table MEMBERS_OF_GYM
--if they exist, their phone number is updated
--if not, their phone number is added
MERGE INTO MEMBERS_OF_GYM m
USING (
    SELECT 6 AS MemberID, 'Daniel Miller' AS FullName, 'danielmiller@gmail.com' AS Email,
           '0' AS PhoneNumber, TO_DATE('2003-02-20', 'YYYY-MM-DD') AS DateOfBirth,
           106 AS SubscriptionID FROM DUAL
) src
ON (m.MemberID = src.MemberID)
WHEN MATCHED THEN
    UPDATE SET m.PhoneNumber = src.PhoneNumber
WHEN NOT MATCHED THEN
    INSERT (MemberID, FullName, Email, PhoneNumber, DateOfBirth, SubscriptionID, JOIN_DATE)
    VALUES (src.MemberID, src.FullName, src.Email, src.PhoneNumber, src.DateOfBirth, src.SubscriptionID, SYSDATE);
```

Examples on the next slide

Let's check the first case, namely if the member already exists in the database.

As we saw in the previous slide, we are looking for 'Daniel Miller'. Since he already exists in the database, we will update his phone number to '0' for testing purposes

	MEMBE...	FULLNAME	EMAIL	PHONENUMBER	DATEOFBIRTH	SUBSCRIPTIONID	JOIN_DATE	ADDRESS
1		1 Michael Doe	michaeldoe@gmail.com	0737217263	10-MAY-90	1	18-JAN-25	(null)
2		2 Mike Johnson	mike.johnson@gmail.com	0987654321	20-JUL-95	102	22-JAN-25	(null)
3		3 Alice Matthews	alicematthwes@gmail.com	1234098765	25-OCT-98	103	21-JAN-25	(null)
4		4 Andrew Joe	andrewjoe@gmail.com	5432167890	04-NOV-99	104	21-JAN-25	(null)
5		5 Emily Davis	emily.davis@gmail.com	1111111111	18-MAR-92	101	20-JAN-25	(null)
6		6 Daniel Miller	danielmiller@gmail.com	0	20-FEB-03	106	22-JAN-25	(null)
7		7 Emma Martinez	emma.martinez@gmail.com	0436586978	25-OCT-98	107	22-JAN-25	(null)
8		8 Sophia Brown	sophiabrown@gmail.com	0475697821	04-NOV-99	108	22-JAN-25	(null)
9		9 Michael Williams	michaelwilliams@gmail.com	0348695869	04-JUN-02	109	22-JAN-25	(null)
10		10 Olivia Garcia	oliviagarcia@gmail.com	0492182738	04-APR-01	110	22-JAN-25	(null)

Now it is time to check the second case, where a member does not exist in the database, in this case I added a 'Test Member' and set his phone number to 1

```
--using MERGE to check if a members exists in the table MEMBERS_OF_GYM
--if they exist, their phone number is updated
--if not, their phone number is added
MERGE INTO MEMBERS_OF_GYM m
USING (
    SELECT 11 AS MemberID, 'Test Member' AS FullName, 'testmember@gmail.com' AS Email,
           '1' AS PhoneNumber, TO_DATE('2003-02-20', 'YYYY-MM-DD') AS DateOfBirth,
           106 AS SubscriptionID FROM DUAL
) src
ON (m.MemberID = src.MemberID)
WHEN MATCHED THEN
    UPDATE SET m.PhoneNumber = src.PhoneNumber
WHEN NOT MATCHED THEN
    INSERT (MemberID, FullName, Email, PhoneNumber, DateOfBirth, SubscriptionID, JOIN_DATE)
    VALUES (src.MemberID, src.FullName, src.Email, src.PhoneNumber, src.DateOfBirth, src.SubscriptionID, SYSDATE);
```

	MEMBE...	FULLNAME	EMAIL	PHONENUMBER	DATEOFBIRTH	SUBSCRIPTIONID	JOIN_DATE	ADDRESS
1	1	Michael Doe	michaeldoe@gmail.com	0737217263	10-MAY-90	1	18-JAN-25	(null)
2	2	Mike Johnson	mike.johnson@gmail.com	0987654321	20-JUL-95	102	22-JAN-25	(null)
3	3	Alice Matthews	alicematthwes@gmail.com	1234098765	25-OCT-98	103	21-JAN-25	(null)
4	4	Andrew Joe	andrewjoe@gmail.com	5432167890	04-NOV-99	104	21-JAN-25	(null)
5	5	Emily Davis	emily.davis@gmail.com	111111111	18-MAR-92	101	20-JAN-25	(null)
6	6	Daniel Miller	danielmiller@gmail.com	0	20-FEB-03	106	22-JAN-25	(null)
7	7	Emma Martinez	emma.martinez@gmail.com	0436586978	25-OCT-98	107	22-JAN-25	(null)
8	8	Sophia Brown	sophiabrown@gmail.com	0475697821	04-NOV-99	108	22-JAN-25	(null)
9	9	Michael Williams	michaelwilliams@gmail.com	0348695869	04-JUN-02	109	22-JAN-25	(null)
10	10	Olivia Garcia	oliviagarcia@gmail.com	0492182738	04-APR-01	110	22-JAN-25	(null)
11	11	Test Member	testmember@gmail.com	1	20-FEB-03	106	22-JAN-25	(null)

Also, I forgot to add my name so I used the same MERGE function to add my name into the table

```
--using MERGE to check if a members exists in the table MEMBERS_OF_GYM
--if they exist, their phone number is updated
--if not, their phone number is added
MERGE INTO MEMBERS_OF_GYM m
USING (
    SELECT 12 AS MemberID, 'Rosu Liviu-Mihai' AS FullName, 'rosuliviu23@stud.ase.ro' AS Email,
           '0767691019' AS PhoneNumber, TO_DATE('2004-05-28', 'YYYY-MM-DD') AS DateOfBirth,
           112 AS SubscriptionID FROM DUAL
) src
ON (m.MemberID = src.MemberID)
WHEN MATCHED THEN
    UPDATE SET m.PhoneNumber = src.PhoneNumber
WHEN NOT MATCHED THEN
    INSERT (MemberID, FullName, Email, PhoneNumber, DateOfBirth, SubscriptionID, JOIN_DATE)
    VALUES (src.MemberID, src.FullName, src.Email, src.PhoneNumber, src.DateOfBirth, src.SubscriptionID, SYSDATE);
```

	MEMBERID	FULLNAME	EMAIL	PHONENUMBER	DATEOFBIRTH	SUBSCRIPTIONID	JOIN_DATE	ADDRESS
1	5	Emily Davis	emily.davis@gmail.com	0737217263	18-MAR-92	101	20-JAN-25	(null)
2	1	Michael Doe	michaeldoe@gmail.com	0737217263	10-MAY-90	1	18-JAN-25	(null)
3	11	Test Member	testmember@gmail.com	1	20-FEB-03	106	22-JAN-25	(null)
4	6	Daniel Miller	danielmiller@gmail.com	0	20-FEB-03	106	22-JAN-25	(null)
5	7	Emma Martinez	emma.martinez@gmail.com	0436586978	25-OCT-98	107	22-JAN-25	(null)
6	8	Sophia Brown	sophiabrown@gmail.com	0475697821	04-NOV-99	108	22-JAN-25	(null)
7	9	Michael Williams	michaelwilliams@gmail.com	0348695869	04-JUN-02	109	22-JAN-25	(null)
8	10	Olivia Garcia	oliviagarcia@gmail.com	0737217263	04-APR-01	110	22-JAN-25	(null)
9	2	Mike Johnson	mike.johnson@gmail.com	0987654321	20-JUL-95	2	22-JAN-25	(null)
10	3	Alice Matthews	alicematthwes@gmail.com	1234098765	25-OCT-98	103	21-JAN-25	(null)
11	4	Andrew Joe	andrewjoe@gmail.com	5432167890	04-NOV-99	104	21-JAN-25	(null)
12	12	Rosu Liviu-Mihai	rosuliviu23@stud.ase.ro	0767691019	28-MAY-04	112	23-JAN-25	(null)

Next, I used 'UPDATE', to update not only the phone number of certain members of the gym but also the specialization of a trainer

```
--using UPDATE
--updating a member's phone number
UPDATE MEMBERS_OF_GYM
SET PhoneNumber = '0737217263'
WHERE MemberID = 10;

--updating trainer specialization
UPDATE TRAINERS
SET Specialization = 'Powerlifting'
WHERE TrainerID = 1;
```

	TRAINERID	FULLNAME	SPECIALIZATION	HIREDATE
1	1	Mike Johnson	Powerlifting	22-MAR-00
2	2	John Michael	Losing weight	27-MAY-98
3	3	Sarah Connor	Yoga	17-JUL-99

10	10	Olivia Garcia	oliviagarcia@gmail.com	0737217263	04-APR-01	110	22-JAN-25	(null)
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As we saw earlier, the member with ID 10, namely 'Olivia Garcia' had the following phone number: 0492182738 which got changed to '0737217263'.
 The same can be said about the trainer with ID 1, Mike Johnson, who was initially assigned to 'Weightlifting'. After 'UPDATE' he is now assinged to 'Powerlifting'.

I used some 'DELETE' commands to delete a member from the 'MEMBERS_OF_GYM' table and to also delete a subscription from the 'SUBSCRIPTION' table

MemberID = 2 on 'MEMBERS_OF_GYM' was 'Mike Johnson'

SubscriptionID = 101 on 'SUBSCRIPTION' table was 'Basic Plan', which is now deleted (I don't know why those values still appear there)

```
--using DELETE
```

```
--deleting a member of the gym from the MEMBERS_OF_GYM table
```

```
DELETE FROM MEMBERS_OF_GYM
```

```
WHERE MemberID = 2;
```

	MEMBE...	FULLNAME	EMAIL	PHONENUMBER	DATEOFBIRTH	SUBSCRIPTIONID	JOIN_DATE	ADDRESS
1	1	Michael Doe	michaeldoe@gmail.com	0737217263	10-MAY-90	1	18-JAN-25	(null)
2	3	Alice Matthews	alicematthwes@gmail.com	1234098765	25-OCT-98	103	21-JAN-25	(null)
3	4	Andrew Joe	andrewjoe@gmail.com	5432167890	04-NOV-99	104	21-JAN-25	(null)
4	5	Emily Davis	emily.davis@gmail.com	0737217263	18-MAR-92	101	20-JAN-25	(null)
5	6	Daniel Miller	danielmiller@gmail.com	0	20-FEB-03	106	22-JAN-25	(null)
6	7	Emma Martinez	emma.martinez@gmail.com	0436586978	25-OCT-98	107	22-JAN-25	(null)
7	8	Sophia Brown	sophiabrown@gmail.com	0475697821	04-NOV-99	108	22-JAN-25	(null)
8	9	Michael Williams	michaelwilliams@gmail.com	0348695869	04-JUN-02	109	22-JAN-25	(null)
9	10	Olivia Garcia	oliviagarcia@gmail.com	0737217263	04-APR-01	110	22-JAN-25	(null)
10	11	Test Member	testmember@gmail.com	1	20-FEB-03	106	22-JAN-25	(null)

	SUBSCRIPTIO...	PLANNAME	COST	DURATIONMONTHS
1	1	Basic Plan	50	1
2	2	Premium Plan	100	3
3	102	Premium Plan	100	3
4	103	Basic Plan	50	1
5	104	Premium Plan	100	3

```
--deleting a subscription from the SUBSCRIPTION table
```

```
DELETE FROM SUBSCRIPTION
```

```
WHERE SubscriptionID = 101;
```

I used some 'SELECT * FROM' to display the information that exists in the tables

```
SELECT * FROM MEMBERS_OF_GYM;  
SELECT * FROM TRAINERS;  
SELECT * FROM TRAINING_SESSION;  
SELECT * FROM EQUIPMENT;  
SELECT * FROM SUBSCRIPTION;
```

We display all training sessions scheduled after a specific date

```
SELECT TrainingSessionName, Schedule  
FROM TRAINING_SESSION  
WHERE Schedule > TO_DATE('2025-01-01', 'YYYY-MM-DD')
```

	TRAININGSESSIONNAME	SCHEDULE
1	Morning Cardio	10-MAY-25
2	Strength training	11-MAY-25
3	Pilates	12-MAY-25

```
SELECT FullName, HireDate  
FROM Trainers  
WHERE HireDate <= TO_DATE('2000-01-01', 'YYYY-MM-DD');
```

	FULLNAME	HIREDATE
1	John Michael	27-MAY-98
2	Sarah Connor	17-JUL-99

```
SELECT FullName  
FROM TRAINERS  
WHERE Specialization = 'Powerlifting';
```

	FULLNAME
1	Mike Johnson

This SQL query retrieves gym members' full names and their subscription status, classifying them as "Basic," "Premium," or "No subscription" based on cost. It uses a LEFT JOIN to combine data from the MEMBERS_OF_GYM and SUBSCRIPTION tables.

```
SELECT FullName,  
       CASE  
         WHEN Cost <= 50 THEN 'Basic'  
         WHEN Cost > 50 THEN 'Premium'  
         ELSE 'No subscription'  
       END AS SubscriptionStatus  
FROM MEMBERS_OF_GYM m  
LEFT JOIN SUBSCRIPTION s ON m.SubscriptionID = s.SubscriptionID;
```

	⚡ FULLNAME	⚡ SUBSCRIPTIONSTATUS
1	Mike Johnson	Premium
2	Michael Doe	Basic
3	Alice Matthews	Basic
4	Andrew Joe	Premium
5	Emma Martinez	No subscription
6	Sophia Brown	No subscription
7	Michael Williams	No subscription
8	Olivia Garcia	No subscription
9	Emily Davis	No subscription
10	Rosu Liviu-Mihai	No subscription
11	Test Member	No subscription
12	Daniel Miller	No subscription

Thank you for your time!