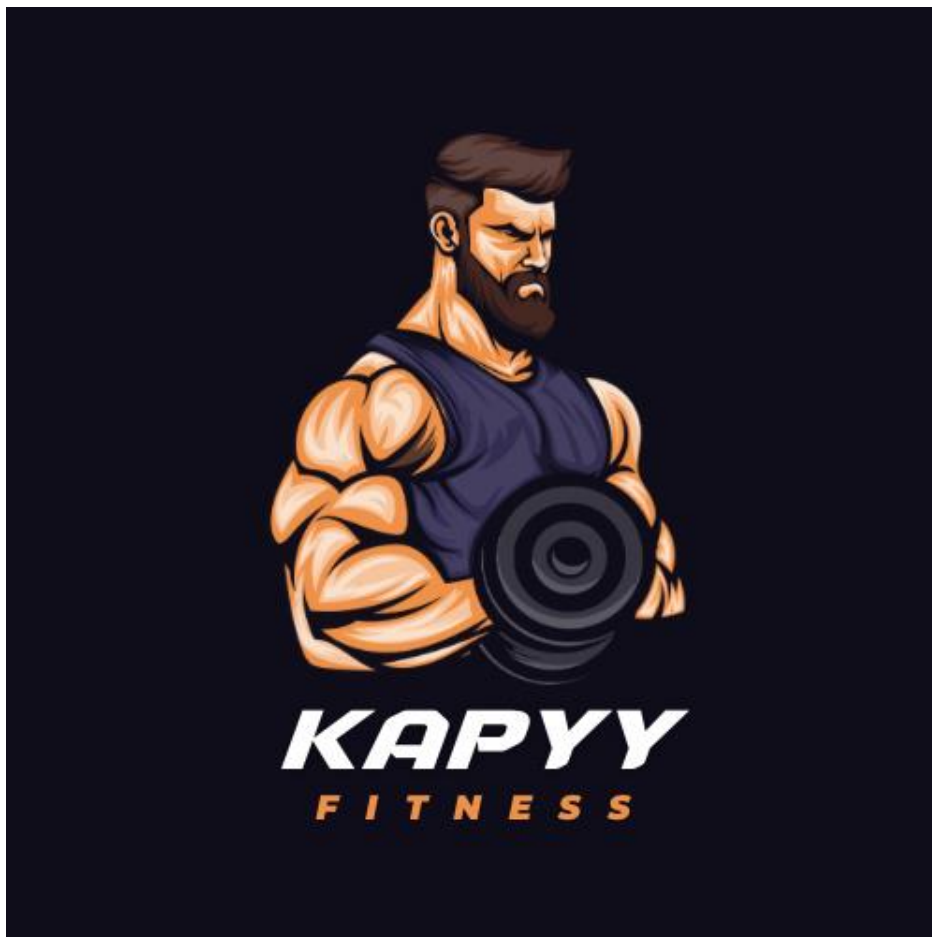


STUDENT NAME: KAPIL VIJAY GHAG

GYM  
DATABASE  
MANAGEMENT SYSTEM



## **THE AIM OF A PROJECT**

Aim for your gym management system SQL project could be to design a robust database that efficiently tracks and manages member information, attendance, workout routines, equipment inventory, and billing details. Ensure data integrity, implement relevant relationships, and create SQL queries for common tasks like member registration, attendance tracking, and generating financial reports.

Expand the aim by focusing on user roles, incorporating security measures, and enabling reporting functionalities. Design the database to support admin, trainer, and member roles with appropriate access levels. Implement features for assigning and tracking personalized workout plans, handling membership renewals, and generating performance analytics.

Prioritize scalability to accommodate future enhancements and ensure a user-friendly interface for seamless interaction with the database.

## TABLE DESCRIPTION:

### CREATE DATABASE:

```
create database gym_management_dbms;  
use gym_management_dbms;
```

### CREATE TABLE MEMBERS:

```
create table members(  
    memberid int primary key,  
    membername varchar(50),  
    contact_no bigint,  
    email varchar(50),  
    address varchar(50),  
    membership_type varchar(50),  
    joining_date date,  
    expiry_date date);  
desc members;
```

### CREATE TABLE STAFF:

```
create table staff(  
    staff_id int primary key,  
    name varchar(50),  
    contact bigint,  
    email_id varchar(50),  
    post varchar(50),  
    salary int,  
    joining_date date);
```

desc staff;

#### CREATE TABLE ATTENDANCE:

```
create table attendance(  
attendance_id int primary key,  
memberid int,  
date_ date,  
checkintime time,  
checkouttime time);  
desc attendance;
```

#### CREATE TABLE PAYMENTS:

```
create table payments(  
paymentid int primary key,  
memberid int,  
amount int,  
payment_type varchar(50),  
payment_date date,  
package varchar(50));  
desc payments;
```

## COMMANDS TO INSERT VALUES IN TABLE:

### TABLE MEMBER:

#### INSERT INTO members VALUES

(1, 'John Doe', 1234567890, 'john@example.com', '123 Main St', 'Premium', '2023-01-15', '2023-07-15'),

(2, 'Jane Smith', 9876543210, 'jane@example.com', '456 Oak Ave', 'Standard', '2023-02-20', '2023-08-20'),

(3, 'Alex Johnson', 5556667777, 'alex@example.com', '789 Elm Blvd', 'Basic', '2023-03-10', '2023-09-10'),

(4, 'Sarah Wilson', 3332221111, 'sarah@example.com', '101 Pine Lane', 'Premium', '2023-04-05', '2023-10-05'),

(5, 'Mike Brown', 9998887777, 'mike@example.com', '210 Cedar Rd', 'Standard', '2023-05-12', '2023-11-12'),

(6, 'Eva Turner', 7771112222, 'eva@example.com', '303 Maple Street', 'Basic', '2023-06-20', '2023-12-20'),

(7, 'Robert White', 9991113333, 'robert@example.com', '15 Oakwood Drive', 'Premium', '2023-07-10', '2024-01-10'),

(8, 'Olivia Lee', 8884445555, 'olivia@example.com', '505 Pine Avenue', 'Standard', '2023-08-05', '2024-02-05'),

(9, 'William Baker', 2223334444, 'william@example.com', '1010 Elm Court', 'Premium', '2023-09-15', '2024-03-15'),

(10, 'Sophie King', 6669998888, 'sophie@example.com', '22 Cedar Lane', 'Basic', '2023-10-18', '2024-04-18'),

(11, 'Isabella Moore', 7772223333, 'isabella@example.com', '909 Park Avenue', 'Premium', '2023-11-05', '2024-05-05'),

(12, 'Ethan Hall', 8883334444, 'ethan@example.com', '707 Elm Street', 'Basic', '2023-12-10', '2024-06-10'),

(13, 'Aria Ward', 9994445555, 'aria@example.com', '606 Cedar Avenue', 'Standard', '2024-01-15', '2024-07-15'),

(14, 'Logan James', 1112223333, 'logan@example.com', '404 Oak Lane', 'Basic', '2024-02-20', '2024-08-20'),

(15, 'Harper Scott', 2223334444, 'harper@example.com', '303 Pine Road', 'Premium', '2024-03-25', '2024-09-25'),

(16, 'Liam Harris', 3334445555, 'liam@example.com', '212 Maple Avenue', 'Standard', '2024-04-10', '2024-10-10'),

(17, 'Amelia Nelson', 4445556666, 'amelia@example.com', '111 Oak Street', 'Basic', '2024-05-15', '2024-11-15'),

(18, 'Elijah Carter', 5556667777, 'elijah@example.com', '909 Elm Lane', 'Premium', '2024-06-20', '2024-12-20'),

(19, 'Avery Rivera', 6667778888, 'avery@example.com', '707 Cedar Road', 'Basic', '2024-07-25', '2025-01-25'),

(20, 'Mia Watson', 7778889999, 'mia@example.com', '505 Pine Lane', 'Premium', '2024-08-30', '2025-02-28'),

(21, 'Evelyn Cooper', 5556667777, 'evelyn@example.com', '303 Oakwood Avenue', 'Premium', '2024-09-05', '2025-03-05'),

(22, 'Henry Morgan', 6667778888, 'henry@example.com', '202 Pine Street', 'Standard', '2024-10-10', '2025-04-10'),

(23, 'Charlotte Bennett', 7778889999, 'charlotte@example.com', '101 Elm Road', 'Basic', '2024-11-15', '2025-05-15'),

(24, 'Gabriel Hayes', 8889990000, 'gabriel@example.com', '505 Cedar Lane', 'Premium', '2024-12-20', '2025-06-20'),

(25, 'Luna Reed', 9990001111, 'luna@example.com', '707 Maple Street', 'Basic', '2025-01-25', '2025-07-25'),

(26, 'Leo Phillips', 1112223333, 'leo@example.com', '909 Oak Avenue', 'Premium', '2025-02-28', '2025-08-28'),

(27, 'Stella Richardson', 2223334444, 'stella@example.com', '111 Pine Drive', 'Standard', '2025-03-05', '2025-09-05'),

(28, 'Jack Murphy', 3334445555, 'jack@example.com', '212 Elm Court', 'Basic', '2025-04-10', '2025-10-10'),

```
(29, 'Lucy Foster', 4445556666, 'lucy@example.com', '404 Cedar Road',  
'Premium', '2025-05-15', '2025-11-15'),
```

```
(30, 'Owen Gray', 5556667777, 'owen@example.com', '606 Oak Lane',  
'Standard', '2025-06-20', '2025-12-20');
```

```
select * from members;
```

### TABLE STAFF:

```
INSERT INTO staff VALUES
```

```
(101, 'Emily Davis', 1112223333, 'emily@example.com', 'Trainer', 35000,  
'2020-07-01'),
```

```
(102, 'David Clark', 4445556666, 'david@example.com', 'Manager', 50000,  
'2019-12-15'),
```

```
(103, 'Sophia Garcia', 7778889999, 'sophia@example.com', 'Receptionist',  
30000, '2021-02-28'),
```

```
(104, 'Michael Martinez', 6667778888, 'michael@example.com', 'Janitor',  
25000, '2022-05-10'),
```

```
(105, 'Emma Rodriguez', 1231231234, 'emma@example.com', 'Trainer',  
38000, '2023-01-20'),
```

```
(106, 'Liam Wright', 5556667777, 'liam@example.com', 'Trainer', 38000,  
'2023-02-10'),
```

```
(107, 'Ava Scott', 3334445555, 'ava@example.com', 'Receptionist', 30000,  
'2023-03-20'),
```

```
(108, 'Noah King', 7778889999, 'noah@example.com', 'Trainer', 40000,  
'2023-04-25'),
```

```
(109, 'Mia Turner', 2223334444, 'mia@example.com', 'Manager', 55000,  
'2023-05-05'),
```

```
(110, 'James Adams', 8889990000, 'james@example.com', 'Janitor', 26000,  
'2023-06-15'),
```

```
(111, 'Mason Baker', 4445556666, 'mason@example.com', 'Trainer', 39000,  
'2023-07-20'),
```



(112, 'Evelyn Reed', 5556667777, 'evelyn@example.com', 'Receptionist', 31000, '2023-08-25'),

(113, 'Jackson Price', 6667778888, 'jackson@example.com', 'Manager', 56000, '2023-09-30'),

(114, 'Scarlett Cooper', 7778889999, 'scarlett@example.com', 'Janitor', 27000, '2023-10-05'),

(115, 'Aiden Stewart', 8889990000, 'aiden@example.com', 'Trainer', 40000, '2023-11-10'),

(116, 'Sebastian Gray', 9990001111, 'sebastian@example.com', 'Trainer', 42000, '2024-01-15'),

(117, 'Riley Evans', 1112223333, 'riley@example.com', 'Receptionist', 32000, '2024-02-20'),

(118, 'Zoe Perez', 2223334444, 'zoe@example.com', 'Manager', 58000, '2024-03-25'),

(119, 'Nathan Cooper', 3334445555, 'nathan@example.com', 'Janitor', 28000, '2024-04-30'),

(120, 'Sofia Ross', 4445556666, 'sofia@example.com', 'Trainer', 41000, '2024-05-05'),

(121, 'Hannah Cooper', 6667778888, 'hannah@example.com', 'Trainer', 43000, '2024-06-20'),

(122, 'Samuel Coleman', 7778889999, 'samuel@example.com', 'Receptionist', 33000, '2024-07-25'),

(123, 'Grace Jenkins', 8889990000, 'grace@example.com', 'Manager', 59000, '2024-08-30'),

(124, 'Christopher Barnes', 9990001111, 'christopher@example.com', 'Janitor', 29000, '2024-09-05'),

(125, 'Penelope Parker', 1112223333, 'penelope@example.com', 'Trainer', 42000, '2024-10-10'),

(126, 'Mateo Wright', 2223334444, 'mateo@example.com', 'Receptionist', 34000, '2024-11-15'),

```
(127, 'Aubrey Diaz', 3334445555, 'aubrey@example.com', 'Manager',  
60000, '2024-12-20'),  
(128, 'Victoria Long', 4445556666, 'victoria@example.com', 'Janitor',  
30000, '2025-01-25'),  
(129, 'Xavier Howard', 5556667777, 'xavier@example.com', 'Trainer',  
44000, '2025-02-28'),  
(130, 'Zoe Morris', 6667778888, 'zoe@example.com', 'Receptionist', 35000,  
'2025-03-05');  
select * from staff;
```

#### TABLE ATTENDANCE:

```
INSERT INTO attendance VALUES  
(1, 1, '2023-12-01', '08:00:00', '16:30:00'),  
(2, 2, '2023-12-01', '09:15:00', '18:00:00'),  
(3, 3, '2023-12-01', '07:45:00', '17:45:00'),  
(4, 4, '2023-12-01', '10:00:00', '19:00:00'),  
(5, 5, '2023-12-01', '08:30:00', '17:30:00'),  
(6, 6, '2023-12-02', '09:00:00', '17:00:00'),  
(7, 7, '2023-12-02', '08:30:00', '16:30:00'),  
(8, 8, '2023-12-02', '10:15:00', '18:15:00'),  
(9, 9, '2023-12-02', '07:45:00', '16:45:00'),  
(10, 10, '2023-12-02', '09:30:00', '17:30:00'),  
(11, 11, '2023-12-03', '08:15:00', '16:15:00'),  
(12, 12, '2023-12-03', '09:30:00', '17:30:00'),  
(13, 13, '2023-12-03', '07:45:00', '15:45:00'),  
(14, 14, '2023-12-03', '10:00:00', '18:00:00'),  
(15, 15, '2023-12-03', '08:45:00', '16:45:00'),
```

```
(16, 16, '2024-01-03', '09:00:00', '17:00:00'),
(17, 17, '2024-01-03', '08:30:00', '16:30:00'),
(18, 18, '2024-01-03', '10:15:00', '18:15:00'),
(19, 19, '2024-01-03', '07:45:00', '15:45:00'),
(20, 20, '2024-01-03', '09:30:00', '17:30:00'),
(21, 21, '2025-01-03', '09:00:00', '17:00:00'),
(22, 22, '2025-01-03', '08:30:00', '16:30:00'),
(23, 23, '2025-01-03', '10:15:00', '18:15:00'),
(24, 24, '2025-01-03', '07:45:00', '15:45:00'),
(25, 25, '2025-01-03', '09:30:00', '17:30:00'),
(26, 26, '2025-01-03', '08:00:00', '16:00:00'),
(27, 27, '2025-01-03', '10:30:00', '18:30:00'),
(28, 28, '2025-01-03', '07:30:00', '15:30:00'),
(29, 29, '2025-01-03', '09:15:00', '17:15:00'),
(30, 30, '2025-01-03', '08:45:00', '16:45:00');
select * from attendance;
```

### TABLE PAYMENTS:

```
INSERT INTO payments VALUES
```

```
(501, 1, 5000, 'Credit Card', '2023-12-03', '6-month Premium'),
(502, 2, 3000, 'Cash', '2023-12-05', '3-month Standard'),
(503, 3, 2000, 'Debit Card', '2023-12-08', '3-month Basic'),
(504, 4, 5500, 'Credit Card', '2023-12-10', '6-month Premium'),
(505, 5, 4000, 'Cash', '2023-12-12', '3-month Standard'),
(506, 6, 2500, 'Debit Card', '2023-12-15', '6-month Basic'),
(507, 7, 6000, 'Credit Card', '2023-12-18', '6-month Premium'),
```

(508, 8, 3500, 'Cash', '2023-12-20', '3-month Standard'),  
(509, 9, 6200, 'Credit Card', '2023-12-22', '6-month Premium'),  
(510, 10, 3000, 'Cash', '2023-12-25', '3-month Basic'),  
(511, 11, 6500, 'Credit Card', '2023-12-28', '6-month Premium'),  
(512, 12, 2800, 'Cash', '2023-12-30', '3-month Basic'),  
(513, 13, 4000, 'Debit Card', '2024-01-02', '3-month Standard'),  
(514, 14, 2900, 'Cash', '2024-01-05', '3-month Basic'),  
(515, 15, 7000, 'Credit Card', '2024-01-08', '6-month Premium'),  
(516, 16, 3500, 'Debit Card', '2024-01-12', '3-month Standard'),  
(517, 17, 2700, 'Cash', '2024-01-15', '3-month Basic'),  
(518, 18, 6500, 'Credit Card', '2024-01-18', '6-month Premium'),  
(519, 19, 2900, 'Cash', '2024-01-21', '3-month Basic'),  
(520, 20, 7200, 'Credit Card', '2024-01-24', '6-month Premium'),  
(521, 21, 3700, 'Debit Card', '2025-01-12', '3-month Standard'),  
(522, 22, 2900, 'Cash', '2025-01-15', '3-month Basic'),  
(523, 23, 6700, 'Credit Card', '2025-01-18', '6-month Premium'),  
(524, 24, 3100, 'Cash', '2025-01-21', '3-month Basic'),  
(525, 25, 7400, 'Credit Card', '2025-01-24', '6-month Premium'),  
(526, 26, 3600, 'Debit Card', '2025-01-27', '3-month Standard'),  
(527, 27, 2800, 'Cash', '2025-01-30', '3-month Basic'),  
(528, 28, 6800, 'Credit Card', '2025-02-02', '6-month Premium'),  
(529, 29, 3200, 'Cash', '2025-02-05', '3-month Basic'),  
(530, 30, 7500, 'Credit Card', '2025-02-08', '6-month Premium');  
select \* from payments;

## #QUERIES

#Retrieve all members' names and email addresses:

```
SELECT membername, email FROM members;
```

John Doe	<a href="mailto:john@example.com">john@example.com</a>
Jane Smith	<a href="mailto:jane@example.com">jane@example.com</a>
Alex Johnson	<a href="mailto:alex@example.com">alex@example.com</a>
Sarah Wilson	<a href="mailto:sarah@example.com">sarah@example.com</a>
Mike Brown	<a href="mailto:mike@example.com">mike@example.com</a>
Eva Turner	<a href="mailto:eva@example.com">eva@example.com</a>
Robert White	<a href="mailto:robert@example.com">robert@example.com</a>
Olivia Lee	<a href="mailto:olivia@example.com">olivia@example.com</a>
William Baker	<a href="mailto:william@example.com">william@example.com</a>
Sophie King	<a href="mailto:sophie@example.com">sophie@example.com</a>
Isabella Moore	<a href="mailto:isabella@example.com">isabella@example.com</a>
Ethan Hall	<a href="mailto:ethan@example.com">ethan@example.com</a>
Aria Ward	<a href="mailto:aria@example.com">aria@example.com</a>
Logan James	<a href="mailto:logan@example.com">logan@example.com</a>
Harper Scott	<a href="mailto:harper@example.com">harper@example.com</a>
Liam Harris	<a href="mailto:liam@example.com">liam@example.com</a>
Amelia Nelson	<a href="mailto:amelia@example.com">amelia@example.com</a>
Elijah Carter	<a href="mailto:elijah@example.com">elijah@example.com</a>
Avery Rivera	<a href="mailto:avery@example.com">avery@example.com</a>
Mia Watson	<a href="mailto:mia@example.com">mia@example.com</a>
Evelyn Cooper	<a href="mailto:evelyn@example.com">evelyn@example.com</a>
Henry Morgan	<a href="mailto:henry@example.com">henry@example.com</a>
Charlotte Bennett	<a href="mailto:charlotte@example.com">charlotte@example.com</a>
Gabriel Hayes	<a href="mailto:gabriel@example.com">gabriel@example.com</a>
Luna Reed	<a href="mailto:luna@example.com">luna@example.com</a>
Leo Phillips	<a href="mailto:leo@example.com">leo@example.com</a>
Stella Richardson	<a href="mailto:stella@example.com">stella@example.com</a>
Jack Murphy	<a href="mailto:jack@example.com">jack@example.com</a>
Lucy Foster	<a href="mailto:lucy@example.com">lucy@example.com</a>
Owen Gray	<a href="mailto:owen@example.com">owen@example.com</a>

membername	email
Alex Johnson	<a href="mailto:alex@example.com">alex@example.com</a>
Amelia Nelson	<a href="mailto:amelia@example.com">amelia@example.com</a>
Aria Ward	<a href="mailto:aria@example.com">aria@example.com</a>
Avery Rivera	<a href="mailto:avery@example.com">avery@example.com</a>
Charlotte Be...	<a href="mailto:charlotte@example.com">charlotte@example.com</a>
Elijah Carter	<a href="mailto:elijah@example.com">elijah@example.com</a>
Ethan Hall	<a href="mailto:ethan@example.com">ethan@example.com</a>
Eva Turner	<a href="mailto:eva@example.com">eva@example.com</a>
Evelyn Cooper	<a href="mailto:evelyn@example.com">evelyn@example.com</a>
Gabriel Hayes	<a href="mailto:gabriel@example.com">gabriel@example.com</a>
Harper Scott	<a href="mailto:harper@example.com">harper@example.com</a>
Henry Morgan	<a href="mailto:henry@example.com">henry@example.com</a>
Isabella Moore	<a href="mailto:isabella@example.com">isabella@example.com</a>
Jack Murphy	<a href="mailto:jack@example.com">jack@example.com</a>
Jane Smith	<a href="mailto:jane@example.com">jane@example.com</a>
John Doe	<a href="mailto:john@example.com">john@example.com</a>
Leo Phillips	<a href="mailto:leo@example.com">leo@example.com</a>
Liam Harris	<a href="mailto:liam@example.com">liam@example.com</a>
Logan James	<a href="mailto:logan@example.com">logan@example.com</a>
Lucy Foster	<a href="mailto:lucy@example.com">lucy@example.com</a>
Luna Reed	<a href="mailto:luna@example.com">luna@example.com</a>
Mia Watson	<a href="mailto:mia@example.com">mia@example.com</a>
Mike Brown	<a href="mailto:mike@example.com">mike@example.com</a>
Olivia Lee	<a href="mailto:olivia@example.com">olivia@example.com</a>
Owen Gray	<a href="mailto:owen@example.com">owen@example.com</a>
Robert White	<a href="mailto:robert@example.com">robert@example.com</a>
Sarah Wilson	<a href="mailto:sarah@example.com">sarah@example.com</a>
Sophie King	<a href="mailto:sophie@example.com">sophie@example.com</a>
Stella Richar...	<a href="mailto:stella@example.com">stella@example.com</a>
William Baker	<a href="mailto:william@example.com">william@example.com</a>

#Get the details of staff members who are trainers:

```
SELECT * FROM staff WHERE post = 'Trainer';
```

101	Emily Davis	1112223333	<a href="mailto:emily@example.com">emily@example.com</a>	Trainer	35000	2020-07-01

105	Emma Rodriguez	1231231234	<a href="mailto:emma@example.com">emma@example.com</a>	Trainer	38000	2023-01-20
106	Liam Wright	5556667777	<a href="mailto:liam@example.com">liam@example.com</a>	Trainer	38000	2023-02-10
108	Noah King	7778889999	<a href="mailto:noah@example.com">noah@example.com</a>	Trainer	40000	2023-04-25
111	Mason Baker	4445556666	<a href="mailto:mason@example.com">mason@example.com</a>	Trainer	39000	2023-07-20
115	Aiden Stewart	8889990000	<a href="mailto:aiden@example.com">aiden@example.com</a>	Trainer	40000	2023-11-10
116	Sebastian Gray	9990001111	<a href="mailto:sebastian@example.com">sebastian@example.com</a>	Trainer	42000	2024-01-15
120	Sofia Ross	4445556666	<a href="mailto:sofia@example.com">sofia@example.com</a>	Trainer	41000	2024-05-05
121	Hannah Cooper	6667778888	<a href="mailto:hannah@example.com">hannah@example.com</a>	Trainer	43000	2024-06-20
125	Penelope Parker	1112223333	<a href="mailto:penelope@example.com">penelope@example.com</a>	Trainer	42000	2024-10-10
129	Xavier Howard	5556667777	<a href="mailto:xavier@example.com">xavier@example.com</a>	Trainer	44000	2025-02-28

staff_id	name	contact	email_id	post	salary	joining_date
101	Emily Davis	1112223333	<a href="mailto:emily@example.com">emily@example.com</a>	Trainer	35000	2020-07-01
105	Emma Rodriguez	1231231234	<a href="mailto:emma@example.com">emma@example.com</a>	Trainer	38000	2023-01-20
106	Liam Wright	5556667777	<a href="mailto:liam@example.com">liam@example.com</a>	Trainer	38000	2023-02-10
108	Noah King	7778889999	<a href="mailto:noah@example.com">noah@example.com</a>	Trainer	40000	2023-04-25
111	Mason Baker	4445556666	<a href="mailto:mason@example.com">mason@example.com</a>	Trainer	39000	2023-07-20
115	Aiden Stewart	8889990000	<a href="mailto:aiden@example.com">aiden@example.com</a>	Trainer	40000	2023-11-10
116	Sebastian Gray	9990001111	<a href="mailto:sebastian@example.com">sebastian@example.com</a>	Trainer	42000	2024-01-15
120	Sofia Ross	4445556666	<a href="mailto:sofia@example.com">sofia@example.com</a>	Trainer	41000	2024-05-05
121	Hannah Cooper	6667778888	<a href="mailto:hannah@example.com">hannah@example.com</a>	Trainer	43000	2024-06-20
125	Penelope Parker	1112223333	<a href="mailto:penelope@example.com">penelope@example.com</a>	Trainer	42000	2024-10-10
129	Xavier Howard	5556667777	<a href="mailto:xavier@example.com">xavier@example.com</a>	Trainer	44000	2025-02-28
NULL	NULL	NULL	NULL	NULL	NULL	NULL

#List the payments made using a credit card:

SELECT \* FROM payments WHERE payment\_type = 'Credit Card';

501	1	5000	Credit Card	2023-12-03	6-month Premium
504	4	5500	Credit Card	2023-12-10	6-month Premium
507	7	6000	Credit Card	2023-12-18	6-month Premium
509	9	6200	Credit Card	2023-12-22	6-month Premium
511	11	6500	Credit Card	2023-12-28	6-month Premium
515	15	7000	Credit Card	2024-01-08	6-month Premium
518	18	6500	Credit Card	2024-01-18	6-month Premium



520	20	7200	Credit Card	2024-01-24	6-month Premium
523	23	6700	Credit Card	2025-01-18	6-month Premium
525	25	7400	Credit Card	2025-01-24	6-month Premium
528	28	6800	Credit Card	2025-02-02	6-month Premium
530	30	7500	Credit Card	2025-02-08	6-month Premium

paymentid	memberid	amount	payment_type	payment_date	package
501	1	5000	Credit Card	2023-12-03	6-month Premium
504	4	5500	Credit Card	2023-12-10	6-month Premium
507	7	6000	Credit Card	2023-12-18	6-month Premium
509	9	6200	Credit Card	2023-12-22	6-month Premium
511	11	6500	Credit Card	2023-12-28	6-month Premium
515	15	7000	Credit Card	2024-01-08	6-month Premium
518	18	6500	Credit Card	2024-01-18	6-month Premium
520	20	7200	Credit Card	2024-01-24	6-month Premium
523	23	6700	Credit Card	2025-01-18	6-month Premium
525	25	7400	Credit Card	2025-01-24	6-month Premium
528	28	6800	Credit Card	2025-02-02	6-month Premium
530	30	7500	Credit Card	2025-02-08	6-month Premium
NULL	NULL	NULL	NULL	NULL	NULL

#Display member names, joining dates, and membership types for those who joined after '2024-01-01':

```
SELECT membername, joining_date, membership_type FROM members WHERE joining_date > '2024-01-01';
```

Aria Ward	2024-01-15	Standard
Logan James	2024-02-20	Basic
Harper Scott	2024-03-25	Premium
Liam Harris	2024-04-10	Standard
Amelia Nelson	2024-05-15	Basic
Elijah Carter	2024-06-20	Premium
Avery Rivera	2024-07-25	Basic
Mia Watson	2024-08-30	Premium
Evelyn Cooper	2024-09-05	Premium
Henry Morgan	2024-10-10	Standard
Charlotte Bennett	2024-11-15	Basic
Gabriel Hayes	2024-12-20	Premium
Luna Reed	2025-01-25	Basic
Leo Phillips	2025-02-28	Premium

Stella Richardson	2025-03-05	Standard
Jack Murphy	2025-04-10	Basic
Lucy Foster	2025-05-15	Premium
Owen Gray	2025-06-20	Standard

membername	joining_date	membership_type
Logan James	2024-02-20	Basic
Amelia Nelson	2024-05-15	Basic
Avery Rivera	2024-07-25	Basic
Charlotte Ben...	2024-11-15	Basic
Luna Reed	2025-01-25	Basic
Jack Murphy	2025-04-10	Basic
Harper Scott	2024-03-25	Premium
Elijah Carter	2024-06-20	Premium
Mia Watson	2024-08-30	Premium
Evelyn Cooper	2024-09-05	Premium
Gabriel Hayes	2024-12-20	Premium
Leo Phillips	2025-02-28	Premium
Lucy Foster	2025-05-15	Premium
Aria Ward	2024-01-15	Standard
Liam Harris	2024-04-10	Standard
Henry Morgan	2024-10-10	Standard
Stella Richard...	2025-03-05	Standard
Owen Gray	2025-06-20	Standard

#Find the highest salary among staff members:

```
SELECT MAX(salary) AS highest_salary FROM staff;
```

HIGHEST_SALARY
60000

highest_salary
60000

#Retrieve the latest attendance record date:

```
SELECT MAX(date_) AS latest_attendance_date FROM attendance;
```

LATEST_ATTENDANCE_DATE
2025-01-03

latest_attendance_date
2025-01-03



#Get the details of members with 'Premium' membership type:

```
SELECT * FROM members WHERE membership_type = 'Premium';
```

1	John Doe	1234567890	john@example.com	123 Main St	Premium	2023-01-15	2023-07-15
4	Sarah Wilson	3332221111	sarah@example.com	101 Pine Lane	Premium	2023-04-05	2023-10-05
7	Robert White	9991113333	robert@example.com	15 Oakwood Drive	Premium	2023-07-10	2024-01-10
9	William Baker	2223334444	william@example.com	1010 Elm Court	Premium	2023-09-15	2024-03-15
11	Isabella Moore	7772223333	isabella@example.com	909 Park Avenue	Premium	2023-11-05	2024-05-05
15	Harper Scott	2223334444	harper@example.com	303 Pine Road	Premium	2024-03-25	2024-09-25
18	Elijah Carter	5556667777	elijah@example.com	909 Elm Lane	Premium	2024-06-20	2024-12-20
20	Mia Watson	7778889999	mia@example.com	505 Pine Lane	Premium	2024-08-30	2025-02-28
21	Evelyn Cooper	5556667777	evelyn@example.com	303 Oakwood Avenue	Premium	2024-09-05	2025-03-05
24	Gabriel Hayes	8889990000	gabriel@example.com	505 Cedar Lane	Premium	2024-12-20	2025-06-20
26	Leo Phillips	1112223333	leo@example.com	909 Oak Avenue	Premium	2025-02-28	2025-08-28
29	Lucy Foster	4445556666	lucy@example.com	404 Cedar Road	Premium	2025-05-15	2025-11-15

memberid	membername	contact_no	email	address	membership_type	joining_date	expiry_date
1	John Doe	1234567890	john@example.com	123 Main St	Premium	2023-01-15	2023-07-15
4	Sarah Wilson	3332221111	sarah@example.com	101 Pine Lane	Premium	2023-04-05	2023-10-05
7	Robert White	9991113333	robert@example.com	15 Oakwood Drive	Premium	2023-07-10	2024-01-10
9	William Baker	2223334444	william@example.com	1010 Elm Court	Premium	2023-09-15	2024-03-15
11	Isabella Moore	7772223333	isabella@example.com	909 Park Avenue	Premium	2023-11-05	2024-05-05
15	Harper Scott	2223334444	harper@example.com	303 Pine Road	Premium	2024-03-25	2024-09-25
18	Elijah Carter	5556667777	elijah@example.com	909 Elm Lane	Premium	2024-06-20	2024-12-20
20	Mia Watson	7778889999	mia@example.com	505 Pine Lane	Premium	2024-08-30	2025-02-28
21	Evelyn Cooper	5556667777	evelyn@example.com	303 Oakwood Avenue	Premium	2024-09-05	2025-03-05
24	Gabriel Hayes	8889990000	gabriel@example.com	505 Cedar Lane	Premium	2024-12-20	2025-06-20
26	Leo Phillips	1112223333	leo@example.com	909 Oak Avenue	Premium	2025-02-28	2025-08-28
29	Lucy Foster	4445556666	lucy@example.com	404 Cedar Road	Premium	2025-05-15	2025-11-15
NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL

#List the names and email addresses of staff members who joined in 2023:

SELECT name, email\_id FROM staff WHERE YEAR(joining\_date) = 2023;

1	John Doe	1234567890	john@example.com	123 Main St	Premium	2023-01-15	2023-07-15
4	Sarah Wilson	3332221111	sarah@example.com	101 Pine Lane	Premium	2023-04-05	2023-10-05
7	Robert White	9991113333	robert@example.com	15 Oakwood Drive	Premium	2023-07-10	2024-01-10
9	William Baker	2223334444	william@example.com	1010 Elm Court	Premium	2023-09-15	2024-03-15
11	Isabella Moore	7772223333	isabella@example.com	909 Park Avenue	Premium	2023-11-05	2024-05-05
15	Harper Scott	2223334444	harper@example.com	303 Pine Road	Premium	2024-03-25	2024-09-25
18	Elijah Carter	5556667777	elijah@example.com	909 Elm Lane	Premium	2024-06-20	2024-12-20
20	Mia Watson	7778889999	mia@example.com	505 Pine Lane	Premium	2024-08-30	2025-02-28
21	Evelyn Cooper	5556667777	evelyn@example.com	303 Oakwood Avenue	Premium	2024-09-05	2025-03-05
24	Gabriel Hayes	8889990000	gabriel@example.com	505 Cedar Lane	Premium	2024-12-20	2025-06-20

26	Leo Phillips	1112223333	leo@example.com	909 Oak Avenue	Premium	2025-02-28	2025-08-28
29	Lucy Foster	4445556666	lucy@example.com	404 Cedar Road	Premium	2025-05-15	2025-11-15

memberid	membername	contact_no	email	address	membership_type	joining_date	expiry_date
1	John Doe	1234567890	john@example.com	123 Main St	Premium	2023-01-15	2023-07-15
4	Sarah Wilson	3332221111	sarah@example.com	101 Pine Lane	Premium	2023-04-05	2023-10-05
7	Robert White	9991113333	robert@example.com	15 Oakwood Drive	Premium	2023-07-10	2024-01-10
9	William Baker	2223334444	william@example.com	1010 Elm Court	Premium	2023-09-15	2024-03-15
11	Isabella Moore	7772223333	isabella@example.com	909 Park Avenue	Premium	2023-11-05	2024-05-05
15	Harper Scott	2223334444	harper@example.com	303 Pine Road	Premium	2024-03-25	2024-09-25
18	Elijah Carter	5556667777	elijah@example.com	909 Elm Lane	Premium	2024-06-20	2024-12-20
20	Mia Watson	7778889999	mia@example.com	505 Pine Lane	Premium	2024-08-30	2025-02-28
21	Evelyn Cooper	5556667777	evelyn@example.com	303 Oakwood Avenue	Premium	2024-09-05	2025-03-05
24	Gabriel Hayes	8889990000	gabriel@example.com	505 Cedar Lane	Premium	2024-12-20	2025-06-20
26	Leo Phillips	1112223333	leo@example.com	909 Oak Avenue	Premium	2025-02-28	2025-08-28
29	Lucy Foster	4445556666	lucy@example.com	404 Cedar Road	Premium	2025-05-15	2025-11-15
NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL

#Retrieve member names and expiry dates for those whose membership expires after '2024-12-31':

```
SELECT membername, expiry_date FROM members WHERE expiry_date > '2024-12-31';
```

Emma Rodriguez	emma@example.com
Liam Wright	liam@example.com
Ava Scott	ava@example.com
Noah King	noah@example.com
Mia Turner	mia@example.com
James Adams	james@example.com
Mason Baker	mason@example.com
Evelyn Reed	evelyn@example.com
Jackson Price	jackson@example.com
Scarlett Cooper	scarlett@example.com
Aiden Stewart	aiden@example.com

name	email_id
Aiden Stewart	aiden@example.com
Ava Scott	ava@example.com
Emma Rodriguez	emma@example.com
Evelyn Reed	evelyn@example.com
Jackson Price	jackson@example.com
James Adams	james@example.com
Liam Wright	liam@example.com
Mason Baker	mason@example.com
Mia Turner	mia@example.com
Noah King	noah@example.com
Scarlett Cooper	scarlett@example.com

## SUBQUERIES

Find members who have made payments using a credit card:

```
SELECT * FROM members WHERE memberid IN (SELECT memberid FROM payments WHERE payment_type = 'Credit Card');
```

1	John Doe	1234567890	john@example.com	123 Main St	Premium	2023-01-15	2023-07-15
4	Sarah Wilson	3332221111	sarah@example.com	101 Pine Lane	Premium	2023-04-05	2023-10-05
7	Robert White	9991113333	robert@example.com	15 Oakwood Drive	Premium	2023-07-10	2024-01-10
9	William Baker	2223334444	william@example.com	1010 Elm Court	Premium	2023-09-15	2024-03-15
11	Isabella Moore	7772223333	isabella@example.com	909 Park Avenue	Premium	2023-11-05	2024-05-05
15	Harper Scott	2223334444	harper@example.com	303 Pine Road	Premium	2024-03-25	2024-09-25
18	Elijah Carter	5556667777	elijah@example.com	909 Elm Lane	Premium	2024-06-20	2024-12-20
20	Mia Watson	7778889999	mia@example.com	505 Pine Lane	Premium	2024-08-30	2025-02-28

23	Charlotte Bennett	7778889999	charlotte@example.com	101 Elm Road	Basic	2024-11-15	2025-05-15
25	Luna Reed	9990001111	luna@example.com	707 Maple Street	Basic	2025-01-25	2025-07-25
28	Jack Murphy	3334445555	jack@example.com	212 Elm Court	Basic	2025-04-10	2025-10-10
30	Owen Gray	5556667777	owen@example.com	606 Oak Lane	Standard	2025-06-20	2025-12-20

memberid	membername	contact_no	email	address	membership_type	joining_date	expiry_date
1	John Doe	1234567890	john@example.com	123 Main St	Premium	2023-01-15	2023-07-15
4	Sarah Wilson	3332221111	sarah@example.com	101 Pine Lane	Premium	2023-04-05	2023-10-05
7	Robert White	9991113333	robert@example.com	15 Oakwood Drive	Premium	2023-07-10	2024-01-10
9	William Baker	2223334444	william@example.com	1010 Elm Court	Premium	2023-09-15	2024-03-15
11	Isabella Moore	7772223333	isabella@example.com	909 Park Avenue	Premium	2023-11-05	2024-05-05
15	Harper Scott	2223334444	harper@example.com	303 Pine Road	Premium	2024-03-25	2024-09-25
18	Elijah Carter	5556667777	elijah@example.com	909 Elm Lane	Premium	2024-06-20	2024-12-20
20	Mia Watson	7778889999	mia@example.com	505 Pine Lane	Premium	2024-08-30	2025-02-28
23	Charlotte Bennett	7778889999	charlotte@example.com	101 Elm Road	Basic	2024-11-15	2025-05-15
25	Luna Reed	9990001111	luna@example.com	707 Maple Street	Basic	2025-01-25	2025-07-25
28	Jack Murphy	3334445555	jack@example.com	212 Elm Court	Basic	2025-04-10	2025-10-10
30	Owen Gray	5556667777	owen@example.com	606 Oak Lane	Standard	2025-06-20	2025-12-20
NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL

#Retrieve staff members whose salaries are above the average salary:

SELECT \* FROM staff WHERE salary > (SELECT AVG(salary) FROM staff);

1	John Doe	1234567890	john@example.com	123 Main St	Premium	2023-01-15	2023-07-15
4	Sarah Wilson	3332221111	sarah@example.com	101 Pine Lane	Premium	2023-04-05	2023-10-05
7	Robert White	9991113333	robert@example.com	15 Oakwood Drive	Premium	2023-07-10	2024-01-10
9	William Baker	2223334444	william@example.com	1010 Elm Court	Premium	2023-09-15	2024-03-15
11	Isabella Moore	7772223333	isabella@example.com	909 Park Avenue	Premium	2023-11-05	2024-05-05
15	Harper Scott	2223334444	harper@example.com	303 Pine Road	Premium	2024-03-25	2024-09-25

18	Elijah Carter	5556667777	elijah@example.com	909 Elm Lane	Premium	2024-06-20	2024-12-20
20	Mia Watson	7778889999	mia@example.com	505 Pine Lane	Premium	2024-08-30	2025-02-28
23	Charlotte Bennett	7778889999	charlotte@example.com	101 Elm Road	Basic	2024-11-15	2025-05-15
25	Luna Reed	9990001111	luna@example.com	707 Maple Street	Basic	2025-01-25	2025-07-25
28	Jack Murphy	3334445555	jack@example.com	212 Elm Court	Basic	2025-04-10	2025-10-10
30	Owen Gray	5556667777	owen@example.com	606 Oak Lane	Standard	2025-06-20	2025-12-20

memberid	membername	contact_no	email	address	membership_type	joining_date	expiry_date
30	Owen Gray	5556667777	owen@example.com	606 Oak Lane	Standard	2025-06-20	2025-12-20
28	Jack Murphy	3334445555	jack@example.com	212 Elm Court	Basic	2025-04-10	2025-10-10
25	Luna Reed	9990001111	luna@example.com	707 Maple Street	Basic	2025-01-25	2025-07-25
23	Charlotte Bennett	7778889999	charlotte@example.com	101 Elm Road	Basic	2024-11-15	2025-05-15
20	Mia Watson	7778889999	mia@example.com	505 Pine Lane	Premium	2024-08-30	2025-02-28
18	Elijah Carter	5556667777	elijah@example.com	909 Elm Lane	Premium	2024-06-20	2024-12-20
15	Harper Scott	2223334444	harper@example.com	303 Pine Road	Premium	2024-03-25	2024-09-25
11	Isabella Moore	7772223333	isabella@example.com	909 Park Avenue	Premium	2023-11-05	2024-05-05
9	William Baker	2223334444	william@example.com	1010 Elm Court	Premium	2023-09-15	2024-03-15
7	Robert White	9991113333	robert@example.com	15 Oakwood Drive	Premium	2023-07-10	2024-01-10
4	Sarah Wilson	3332221111	sarah@example.com	101 Pine Lane	Premium	2023-04-05	2023-10-05
1	John Doe	1234567890	john@example.com	123 Main St	Premium	2023-01-15	2023-07-15
NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL

#List members who have not attended any sessions yet:

SELECT \* FROM members WHERE memberid NOT IN (SELECT DISTINCT memberid FROM attendance);

102	David Clark	4445556666	david@example.com	Manager	50000	2019-12-15
108	Noah King	7778889999	noah@example.com	Trainer	40000	2023-04-25
109	Mia Turner	2223334444	mia@example.com	Manager	55000	2023-05-05
113	Jackson Price	6667778888	jackson@example.com	Manager	56000	2023-09-30
115	Aiden Stewart	8889990000	aiden@example.com	Trainer	40000	2023-11-10



116	Sebastian Gray	9990001111	sebastian@example.com	Trainer	42000	2024-01-15
118	Zoe Perez	2223334444	zoe@example.com	Manager	58000	2024-03-25
120	Sofia Ross	4445556666	sofia@example.com	Trainer	41000	2024-05-05
121	Hannah Cooper	6667778888	hannah@example.com	Trainer	43000	2024-06-20
123	Grace Jenkins	8889990000	grace@example.com	Manager	59000	2024-08-30
125	Penelope Parker	1112223333	penelope@example.com	Trainer	42000	2024-10-10
127	Aubrey Diaz	3334445555	aubrey@example.com	Manager	60000	2024-12-20
129	Xavier Howard	5556667777	xavier@example.com	Trainer	44000	2025-02-28

staff_id	name	contact	email_id	post	salary	joining_date
102	David Clark	4445556666	david@example.com	Manager	50000	2019-12-15
108	Noah King	7778889999	noah@example.com	Trainer	40000	2023-04-25
109	Mia Turner	2223334444	mia@example.com	Manager	55000	2023-05-05
113	Jackson Price	6667778888	jackson@example.com	Manager	56000	2023-09-30
115	Aiden Stewart	8889990000	aiden@example.com	Trainer	40000	2023-11-10
116	Sebastian Gray	9990001111	sebastian@example.com	Trainer	42000	2024-01-15
118	Zoe Perez	2223334444	zoe@example.com	Manager	58000	2024-03-25
120	Sofia Ross	4445556666	sofia@example.com	Trainer	41000	2024-05-05
121	Hannah Cooper	6667778888	hannah@example.com	Trainer	43000	2024-06-20
123	Grace Jenkins	8889990000	grace@example.com	Manager	59000	2024-08-30
125	Penelope Parker	1112223333	penelope@example.com	Trainer	42000	2024-10-10
127	Aubrey Diaz	3334445555	aubrey@example.com	Manager	60000	2024-12-20
129	Xavier Howard	5556667777	xavier@example.com	Trainer	44000	2025-02-28
NULL	NULL	NULL	NULL	NULL	NULL	NULL

#Get the total count of payments made in the year 2024:

SELECT COUNT(\*) AS total\_payments\_2024 FROM payments WHERE YEAR(payment\_date) = 2024;

8
---

total_payments_2024
8

#List staff members who joined after the average joining date of staff:

SELECT \* FROM staff WHERE joining\_date > (SELECT AVG(joining\_date) FROM staff);

11 6	Sebastian Gray	999000111 1	sebastian@example.com	Trainer	4200 0	2024 -01- 15
11 7	Riley Evans	111222333 3	riley@example.com	Receptionis t	3200 0	2024 -02- 20
11 8	Zoe Perez	222333444 4	zoe@example.com	Manager	5800 0	2024 -03- 25
11 9	Nathan Cooper	333444555 5	nathan@example.com	Janitor	2800 0	2024 -04- 30
12 0	Sofia Ross	444555666 6	sofia@example.com	Trainer	4100 0	2024 -05- 05
12 1	Hannah Cooper	666777888 8	hannah@example.com	Trainer	4300 0	2024 -06- 20
12 2	Samuel Coleman	777888999 9	samuel@example.com	Receptionis t	3300 0	2024 -07- 25
12 3	Grace Jenkins	888999000 0	grace@example.com	Manager	5900 0	2024 -08- 30
12 4	Christophe r Barnes	999000111 1	christopher@example.co m	Janitor	2900 0	2024 -09- 05
12 5	Penelope Parker	111222333 3	penelope@example.com	Trainer	4200 0	2024 -10- 10
12 6	Mateo Wright	222333444 4	mateo@example.com	Receptionis t	3400 0	2024 -11- 15
12 7	Aubrey Diaz	333444555 5	aubrey@example.com	Manager	6000 0	2024 -12- 20
12 8	Victoria Long	444555666 6	victoria@example.com	Janitor	3000 0	2025 -01- 25
12 9	Xavier Howard	555666777 7	xavier@example.com	Trainer	4400 0	2025 -02- 28
13 0	Zoe Morris	666777888 8	zoe@example.com	Receptionis t	3500 0	2025 -03- 05



staff_id	name	contact	email_id	post	salary	joining_date
116	Sebastian Gray	9990001111	sebastian@example.com	Trainer	42000	2024-01-15
117	Riley Evans	1112223333	riley@example.com	Receptionist	32000	2024-02-20
118	Zoe Perez	2223334444	zoe@example.com	Manager	58000	2024-03-25
119	Nathan Cooper	3334445555	nathan@example.com	Janitor	28000	2024-04-30
120	Sofia Ross	4445556666	sofia@example.com	Trainer	41000	2024-05-05
121	Hannah Cooper	6667778888	hannah@example.com	Trainer	43000	2024-06-20
122	Samuel Coleman	7778889999	samuel@example.com	Receptionist	33000	2024-07-25
123	Grace Jenkins	8889990000	grace@example.com	Manager	59000	2024-08-30
124	Christopher Barnes	9990001111	christopher@example.com	Janitor	29000	2024-09-05
125	Penelope Parker	1112223333	penelope@example.com	Trainer	42000	2024-10-10
126	Mateo Wright	2223334444	mateo@example.com	Receptionist	34000	2024-11-15
127	Aubrey Diaz	3334445555	aubrey@example.com	Manager	60000	2024-12-20
128	Victoria Long	4445556666	victoria@example.com	Janitor	30000	2025-01-25
129	Xavier Howard	5556667777	xavier@example.com	Trainer	44000	2025-02-28
130	Zoe Morris	6667778888	zoe@example.com	Receptionist	35000	2025-03-05
NULL	NULL	NULL	NULL	NULL	NULL	NULL

#Find members who have the same contact number as any staff member:

SELECT \* FROM members WHERE contact\_no IN (SELECT contact FROM staff);

3	Alex Johnson	5556667777	alex@example.com	789 Elm Blvd	Basic	2023-03-10	2023-09-10
9	William Baker	2223334444	william@example.com	1010 Elm Court	Premium	2023-09-15	2024-03-15
14	Logan James	1112223333	logan@example.com	404 Oak Lane	Basic	2024-02-20	2024-08-20
15	Harper Scott	2223334444	harper@example.com	303 Pine Road	Premium	2024-03-25	2024-09-25
16	Liam Harris	3334445555	liam@example.com	212 Maple Avenue	Standard	2024-04-10	2024-10-10
17	Amelia Nelson	4445556666	amelia@example.com	111 Oak Street	Basic	2024-05-15	2024-11-15
18	Elijah Carter	5556667777	elijah@example.com	909 Elm Lane	Premium	2024-06-20	2024-12-20
19	Avery Rivera	6667778888	avery@example.com	707 Cedar Road	Basic	2024-07-25	2025-01-25

20	Mia Watson	7778889999	mia@example.com	505 Pine Lane	Premium	2024-08-30	2025-02-28
21	Evelyn Cooper	5556667777	evelyn@example.com	303 Oakwood Avenue	Premium	2024-09-05	2025-03-05
22	Henry Morgan	6667778888	henry@example.com	202 Pine Street	Standard	2024-10-10	2025-04-10
23	Charlotte Bennett	7778889999	charlotte@example.com	101 Elm Road	Basic	2024-11-15	2025-05-15
24	Gabriel Hayes	8889990000	gabriel@example.com	505 Cedar Lane	Premium	2024-12-20	2025-06-20
25	Luna Reed	9990001111	luna@example.com	707 Maple Street	Basic	2025-01-25	2025-07-25
26	Leo Phillips	1112223333	leo@example.com	909 Oak Avenue	Premium	2025-02-28	2025-08-28
27	Stella Richardson	2223334444	stella@example.com	111 Pine Drive	Standard	2025-03-05	2025-09-05
28	Jack Murphy	3334445555	jack@example.com	212 Elm Court	Basic	2025-04-10	2025-10-10
29	Lucy Foster	4445556666	lucy@example.com	404 Cedar Road	Premium	2025-05-15	2025-11-15
30	Owen Gray	5556667777	owen@example.com	606 Oak Lane	Standard	2025-06-20	2025-12-20

memberid	membername	contact_no	email	address	membership_type	joining_date	expiry_date
3	Alex Johnson	5556667777	alex@example.com	789 Elm Blvd	Basic	2023-03-10	2023-09-10
9	William Baker	2223334444	william@example.com	1010 Elm Court	Premium	2023-09-15	2024-03-15
14	Logan James	1112223333	logan@example.com	404 Oak Lane	Basic	2024-02-20	2024-08-20
15	Harper Scott	2223334444	harper@example.com	303 Pine Road	Premium	2024-03-25	2024-09-25
16	Liam Harris	3334445555	liam@example.com	212 Maple Avenue	Standard	2024-04-10	2024-10-10
17	Amelia Nelson	4445556666	amelia@example.com	111 Oak Street	Basic	2024-05-15	2024-11-15
18	Elijah Carter	5556667777	elijah@example.com	909 Elm Lane	Premium	2024-06-20	2024-12-20
19	Avery Rivera	6667778888	avery@example.com	707 Cedar Road	Basic	2024-07-25	2025-01-25
20	Mia Watson	7778889999	mia@example.com	505 Pine Lane	Premium	2024-08-30	2025-02-28
21	Evelyn Cooper	5556667777	evelyn@example.com	303 Oakwood Avenue	Premium	2024-09-05	2025-03-05
22	Henry Morgan	6667778888	henry@example.com	202 Pine Street	Standard	2024-10-10	2025-04-10
23	Charlotte Ben...	7778889999	charlotte@example.c...	101 Elm Road	Basic	2024-11-15	2025-05-15
24	Gabriel Hayes	8889990000	gabriel@example.com	505 Cedar Lane	Premium	2024-12-20	2025-06-20
25	Luna Reed	9990001111	luna@example.com	707 Maple Street	Basic	2025-01-25	2025-07-25
26	Leo Phillips	1112223333	leo@example.com	909 Oak Avenue	Premium	2025-02-28	2025-08-28
27	Stella Richard...	2223334444	stella@example.com	111 Pine Drive	Standard	2025-03-05	2025-09-05
28	Jack Murphy	3334445555	jack@example.com	212 Elm Court	Basic	2025-04-10	2025-10-10
29	Lucy Foster	4445556666	lucy@example.com	404 Cedar Road	Premium	2025-05-15	2025-11-15
30	Owen Gray	5556667777	owen@example.com	606 Oak Lane	Standard	2025-06-20	2025-12-20
NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL

#Get the payment details for the member with the highest member ID:

SELECT \* FROM payments WHERE memberid = (SELECT MAX(memberid) FROM members);

530	30	7500	Credit Card	2025-02-08	6-month Premium
-----	----	------	-------------	------------	-----------------

paymentid	memberid	amount	payment_type	payment_date	package
530	30	7500	Credit Card	2025-02-08	6-month Premium
NULL	NULL	NULL	NULL	NULL	NULL

#Retrieve member details with their corresponding attendance:

SELECT members.memberid, members.membername, attendance.date\_, attendance.checkintime, attendance.checkouttime FROM members INNER JOIN attendance ON members.memberid = attendance.memberid;

1	John Doe	2023-12-01	08:00:00	16:30:00
2	Jane Smith	2023-12-01	09:15:00	18:00:00
3	Alex Johnson	2023-12-01	07:45:00	17:45:00
4	Sarah Wilson	2023-12-01	10:00:00	19:00:00
5	Mike Brown	2023-12-01	08:30:00	17:30:00
6	Eva Turner	2023-12-02	09:00:00	17:00:00
7	Robert White	2023-12-02	08:30:00	16:30:00
8	Olivia Lee	2023-12-02	10:15:00	18:15:00
9	William Baker	2023-12-02	07:45:00	16:45:00

10	Sophie King	2023-12-02	09:30:00	17:30:00
11	Isabella Moore	2023-12-03	08:15:00	16:15:00
12	Ethan Hall	2023-12-03	09:30:00	17:30:00
13	Aria Ward	2023-12-03	07:45:00	15:45:00
14	Logan James	2023-12-03	10:00:00	18:00:00
15	Harper Scott	2023-12-03	08:45:00	16:45:00
16	Liam Harris	2024-01-03	09:00:00	17:00:00
17	Amelia Nelson	2024-01-03	08:30:00	16:30:00
18	Elijah Carter	2024-01-03	10:15:00	18:15:00
19	Avery Rivera	2024-01-03	07:45:00	15:45:00
20	Mia Watson	2024-01-03	09:30:00	17:30:00
21	Evelyn Cooper	2025-01-03	09:00:00	17:00:00
22	Henry Morgan	2025-01-03	08:30:00	16:30:00
23	Charlotte Bennett	2025-01-03	10:15:00	18:15:00
24	Gabriel Hayes	2025-01-03	07:45:00	15:45:00
25	Luna Reed	2025-01-03	09:30:00	17:30:00
26	Leo Phillips	2025-01-03	08:00:00	16:00:00
27	Stella Richardson	2025-01-03	10:30:00	18:30:00
28	Jack Murphy	2025-01-03	07:30:00	15:30:00
29	Lucy Foster	2025-01-03	09:15:00	17:15:00
30	Owen Gray	2025-01-03	08:45:00	16:45:00

memberid	membername	date_	checkintime	checkouttime
1	John Doe	2023-12-01	08:00:00	16:30:00
2	Jane Smith	2023-12-01	09:15:00	18:00:00
3	Alex Johnson	2023-12-01	07:45:00	17:45:00
4	Sarah Wilson	2023-12-01	10:00:00	19:00:00
5	Mike Brown	2023-12-01	08:30:00	17:30:00
6	Eva Turner	2023-12-02	09:00:00	17:00:00
7	Robert White	2023-12-02	08:30:00	16:30:00
8	Olivia Lee	2023-12-02	10:15:00	18:15:00
9	William Baker	2023-12-02	07:45:00	16:45:00
10	Sophie King	2023-12-02	09:30:00	17:30:00
11	Isabella Moore	2023-12-03	08:15:00	16:15:00
12	Ethan Hall	2023-12-03	09:30:00	17:30:00
13	Aria Ward	2023-12-03	07:45:00	15:45:00
14	Logan James	2023-12-03	10:00:00	18:00:00
15	Harper Scott	2023-12-03	08:45:00	16:45:00
16	Liam Harris	2024-01-03	09:00:00	17:00:00
17	Amelia Nelson	2024-01-03	08:30:00	16:30:00
18	Elijah Carter	2024-01-03	10:15:00	18:15:00
19	Avery Rivera	2024-01-03	07:45:00	15:45:00
20	Mia Watson	2024-01-03	09:30:00	17:30:00
21	Evelyn Cooper	2025-01-03	09:00:00	17:00:00
22	Henry Morgan	2025-01-03	08:30:00	16:30:00
23	Charlotte Be...	2025-01-03	10:15:00	18:15:00
24	Gabriel Hayes	2025-01-03	07:45:00	15:45:00
25	Luna Reed	2025-01-03	09:30:00	17:30:00

26	Leo Phillips	2025-01-03	08:00:00	16:00:00
27	Stella Richar...	2025-01-03	10:30:00	18:30:00
28	Jack Murphy	2025-01-03	07:30:00	15:30:00
29	Lucy Foster	2025-01-03	09:15:00	17:15:00
30	Owen Gray	2025-01-03	08:45:00	16:45:00

#Fetch staff details with their respective roles:

```
SELECT staff.name, staff.post FROM staff;
```

Emily Davis	Trainer
David Clark	Manager
Sophia Garcia	Receptionist
Michael Martinez	Janitor
Emma Rodriguez	Trainer
Liam Wright	Trainer
Ava Scott	Receptionist
Noah King	Trainer
Mia Turner	Manager
James Adams	Janitor
Mason Baker	Trainer
Evelyn Reed	Receptionist
Jackson Price	Manager
Scarlett Cooper	Janitor
Aiden Stewart	Trainer
Sebastian Gray	Trainer
Riley Evans	Receptionist
Zoe Perez	Manager
Nathan Cooper	Janitor
Sofia Ross	Trainer
Hannah Cooper	Trainer
Samuel Coleman	Receptionist
Grace Jenkins	Manager
Christopher Barnes	Janitor
Penelope Parker	Trainer
Mateo Wright	Receptionist
Aubrey Diaz	Manager
Victoria Long	Janitor
Xavier Howard	Trainer
Zoe Morris	Receptionist

name	post
Victoria Long	Janitor
David Clark	Manager
Mia Turner	Manager
Jackson Price	Manager
Zoe Perez	Manager
Grace Jenkins	Manager
Aubrey Diaz	Manager
Sophia Garcia	Receptionist
Ava Scott	Receptionist
Evelyn Reed	Receptionist
Riley Evans	Receptionist
Samuel Coleman	Receptionist
Mateo Wright	Receptionist
Zoe Morris	Receptionist
Emily Davis	Trainer
Emma Rodriguez	Trainer
Liam Wright	Trainer
Noah King	Trainer
Mason Baker	Trainer
Aiden Stewart	Trainer
Sebastian Gray	Trainer
Sofia Ross	Trainer
Hannah Cooper	Trainer
Penelope Parker	Trainer
Xavier Howard	Trainer

#Get member names and their payment details:

```
SELECT members.membername, payments.amount, payments.payment_type,  
payments.payment_date FROM members INNER JOIN payments ON members.memberid =  
payments.memberid;
```

John Doe	5000	Credit Card	2023-12-03
Jane Smith	3000	Cash	2023-12-05
Alex Johnson	2000	Debit Card	2023-12-08
Sarah Wilson	5500	Credit Card	2023-12-10
Mike Brown	4000	Cash	2023-12-12
Eva Turner	2500	Debit Card	2023-12-15
Robert White	6000	Credit Card	2023-12-18
Olivia Lee	3500	Cash	2023-12-20
William Baker	6200	Credit Card	2023-12-22
Sophie King	3000	Cash	2023-12-25
Isabella Moore	6500	Credit Card	2023-12-28
Ethan Hall	2800	Cash	2023-12-30
Aria Ward	4000	Debit Card	2024-01-02
Logan James	2900	Cash	2024-01-05
Harper Scott	7000	Credit Card	2024-01-08
Liam Harris	3500	Debit Card	2024-01-12
Amelia Nelson	2700	Cash	2024-01-15
Elijah Carter	6500	Credit Card	2024-01-18
Avery Rivera	2900	Cash	2024-01-21
Mia Watson	7200	Credit Card	2024-01-24
Evelyn Cooper	3700	Debit Card	2025-01-12
Henry Morgan	2900	Cash	2025-01-15
Charlotte Bennett	6700	Credit Card	2025-01-18
Gabriel Hayes	3100	Cash	2025-01-21
Luna Reed	7400	Credit Card	2025-01-24
Leo Phillips	3600	Debit Card	2025-01-27
Stella Richardson	2800	Cash	2025-01-30
Jack Murphy	6800	Credit Card	2025-02-02
Lucy Foster	3200	Cash	2025-02-05
Owen Gray	7500	Credit Card	2025-02-08



membername	amount	payment_type	payment_date
John Doe	5000	Credit Card	2023-12-03
Jane Smith	3000	Cash	2023-12-05
Alex Johnson	2000	Debit Card	2023-12-08
Sarah Wilson	5500	Credit Card	2023-12-10
Mike Brown	4000	Cash	2023-12-12
Eva Turner	2500	Debit Card	2023-12-15
Robert White	6000	Credit Card	2023-12-18
Olivia Lee	3500	Cash	2023-12-20
William Baker	6200	Credit Card	2023-12-22
Sophie King	3000	Cash	2023-12-25
Isabella Moore	6500	Credit Card	2023-12-28
Ethan Hall	2800	Cash	2023-12-30
Aria Ward	4000	Debit Card	2024-01-02
Logan James	2900	Cash	2024-01-05
Harper Scott	7000	Credit Card	2024-01-08
Liam Harris	3500	Debit Card	2024-01-12
Amelia Nelson	2700	Cash	2024-01-15
Elijah Carter	6500	Credit Card	2024-01-18
Avery Rivera	2900	Cash	2024-01-21
Mia Watson	7200	Credit Card	2024-01-24
Evelyn Cooper	3700	Debit Card	2025-01-12
Henry Morgan	2900	Cash	2025-01-15
Charlotte Be...	6700	Credit Card	2025-01-18
Gabriel Hayes	3100	Cash	2025-01-21
Luna Reed	7400	Credit Card	2025-01-24
Leo Phillips	3600	Debit Card	2025-01-27
Stella Richar...	2800	Cash	2025-01-30
Jack Murphy	6800	Credit Card	2025-02-02
Lucy Foster	3200	Cash	2025-02-05
Owen Gray	7500	Credit Card	2025-02-08

#Retrieve member names, their joining date, and expiry date of memberships:

SELECT members.membername, members.joining\_date, members.expiry\_date FROM members;

John Doe	2023-01-15	2023-07-15
Jane Smith	2023-02-20	2023-08-20
Alex Johnson	2023-03-10	2023-09-10
Sarah Wilson	2023-04-05	2023-10-05
Mike Brown	2023-05-12	2023-11-12
Eva Turner	2023-06-20	2023-12-20
Robert White	2023-07-10	2024-01-10
Olivia Lee	2023-08-05	2024-02-05
William Baker	2023-09-15	2024-03-15
Sophie King	2023-10-18	2024-04-18
Isabella Moore	2023-11-05	2024-05-05
Ethan Hall	2023-12-10	2024-06-10

Aria Ward	2024-01-15	2024-07-15
Logan James	2024-02-20	2024-08-20
Harper Scott	2024-03-25	2024-09-25
Liam Harris	2024-04-10	2024-10-10
Amelia Nelson	2024-05-15	2024-11-15
Elijah Carter	2024-06-20	2024-12-20
Avery Rivera	2024-07-25	2025-01-25
Mia Watson	2024-08-30	2025-02-28
Evelyn Cooper	2024-09-05	2025-03-05
Henry Morgan	2024-10-10	2025-04-10
Charlotte Bennett	2024-11-15	2025-05-15
Gabriel Hayes	2024-12-20	2025-06-20
Luna Reed	2025-01-25	2025-07-25
Leo Phillips	2025-02-28	2025-08-28
Stella Richardson	2025-03-05	2025-09-05
Jack Murphy	2025-04-10	2025-10-10
Lucy Foster	2025-05-15	2025-11-15
Owen Gray	2025-06-20	2025-12-20

membername	joining_date	expiry_date
Eva Turner	2023-06-20	2023-12-20
Robert White	2023-07-10	2024-01-10
Olivia Lee	2023-08-05	2024-02-05
William Baker	2023-09-15	2024-03-15
Sophie King	2023-10-18	2024-04-18
Isabella Moore	2023-11-05	2024-05-05
Ethan Hall	2023-12-10	2024-06-10
Aria Ward	2024-01-15	2024-07-15
Logan James	2024-02-20	2024-08-20
Harper Scott	2024-03-25	2024-09-25
Liam Harris	2024-04-10	2024-10-10
Amelia Nelson	2024-05-15	2024-11-15
Elijah Carter	2024-06-20	2024-12-20
Avery Rivera	2024-07-25	2025-01-25
Mia Watson	2024-08-30	2025-02-28
Evelyn Cooper	2024-09-05	2025-03-05
Henry Morgan	2024-10-10	2025-04-10
Charlotte Be...	2024-11-15	2025-05-15
Gabriel Hayes	2024-12-20	2025-06-20
Luna Reed	2025-01-25	2025-07-25
Leo Phillips	2025-02-28	2025-08-28
Stella Richar...	2025-03-05	2025-09-05
Jack Murphy	2025-04-10	2025-10-10
Lucy Foster	2025-05-15	2025-11-15
Owen Gray	2025-06-20	2025-12-20

#Fetch staff names and their joining dates:

```
SELECT staff.name, staff.joining_date FROM staff;
```



Emily Davis	2020-07-01
David Clark	2019-12-15
Sophia Garcia	2021-02-28
Michael Martinez	2022-05-10
Emma Rodriguez	2023-01-20
Liam Wright	2023-02-10
Ava Scott	2023-03-20
Noah King	2023-04-25
Mia Turner	2023-05-05
James Adams	2023-06-15
Mason Baker	2023-07-20
Evelyn Reed	2023-08-25
Jackson Price	2023-09-30
Scarlett Cooper	2023-10-05
Aiden Stewart	2023-11-10
Sebastian Gray	2024-01-15
Riley Evans	2024-02-20
Zoe Perez	2024-03-25
Nathan Cooper	2024-04-30
Sofia Ross	2024-05-05
Hannah Cooper	2024-06-20
Samuel Coleman	2024-07-25
Grace Jenkins	2024-08-30
Christopher Barnes	2024-09-05
Penelope Parker	2024-10-10
Mateo Wright	2024-11-15
Aubrey Diaz	2024-12-20
Victoria Long	2025-01-25
Xavier Howard	2025-02-28
Zoe Morris	2025-03-05

name	joining_date
David Clark	2019-12-15
Emily Davis	2020-07-01
Sophia Garcia	2021-02-28
Michael Martinez	2022-05-10
Emma Rodriguez	2023-01-20
Liam Wright	2023-02-10
Ava Scott	2023-03-20
Noah King	2023-04-25
Mia Turner	2023-05-05
James Adams	2023-06-15
Mason Baker	2023-07-20
Evelyn Reed	2023-08-25
Jackson Price	2023-09-30
Scarlett Cooper	2023-10-05
Aiden Stewart	2023-11-10
Sebastian Gray	2024-01-15
Riley Evans	2024-02-20
Zoe Perez	2024-03-25
Nathan Cooper	2024-04-30
Sofia Ross	2024-05-05
Hannah Cooper	2024-06-20
Samuel Coleman	2024-07-25
Grace Jenkins	2024-08-30
Christopher Bar...	2024-09-05
Penelope Parker	2024-10-10
Penelope Parker	2024-10-10
Mateo Wright	2024-11-15
Aubrey Diaz	2024-12-20
Victoria Long	2025-01-25
Xavier Howard	2025-02-28
Zoe Morris	2025-03-05

## **CONCLUSION :-**

In conclusion, the Gym Management System SQL project successfully addresses the key aspects of managing gym operations efficiently. The database design allows for member tracking, class scheduling, and equipment management. The structured queries ensure data retrieval and updates are performed seamlessly. Overall, the project enhances gym administration, contributing to a streamlined and organized fitness facility.

In addition to the aforementioned benefits, the Gym Management System SQL project promotes data integrity through normalization, minimizing redundancy and ensuring accurate information storage. The use of indexes and optimization techniques enhances query performance, facilitating quick access to relevant data. The system's scalability allows for future expansion and integration of new features, ensuring its relevance in evolving gym environments. Overall, this project showcases the

importance of a well-designed database in optimizing gym operations and providing a solid foundation for future enhancements.



**THANK YOU!**



I.T. VEDANT

Decode your dreams