SPORTS ACTIVITY MANAGEMENT SYSTEM

Abstract

In our country sports is celebrated like a festival. Sports is becoming a day to day activity in our youngsters life.
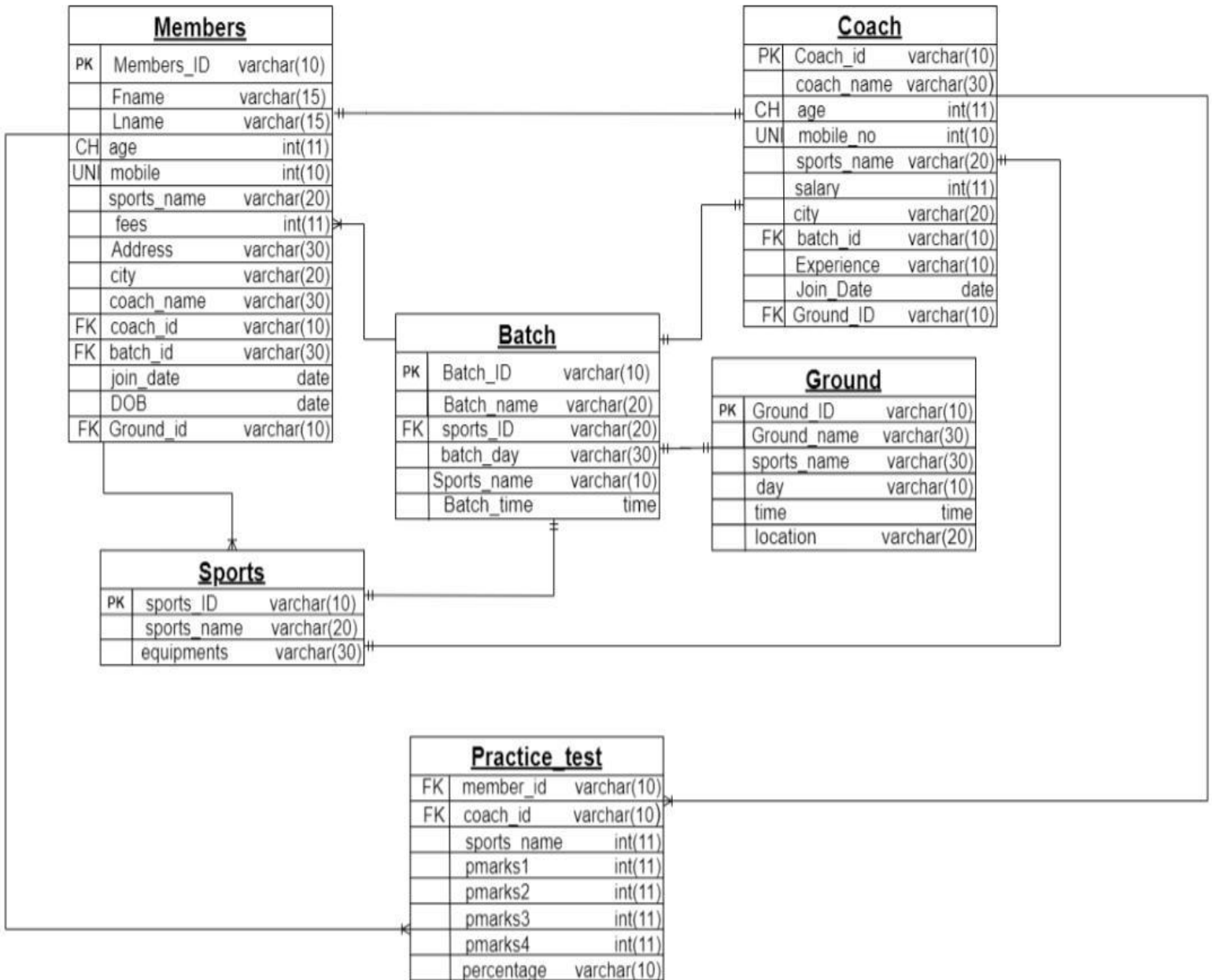
So to manage this sports related activities we have so many academy throughout our state and cities and those academy require to keep their data secure and updated so we require a sports activity database management system.

This database management system has the records of Members, the sports they play, it's coaches, the batches assigned, the ground required and the practice test marks performances.

Objective

1. Efficient method to store and fetch records of sports.
2. Help members to achieve their sports dream without any obstacles.
3. Easy to keep and maintain records.
4. Used for managing members relation between coach, batch, ground and sports.

E-R DIAGRAM

Members

PK	Members_ID	varchar(10)
	Fname	varchar(15)
	Lname	varchar(15)
CH	age	int(11)
UNI	mobile	int(10)
	sports_name	varchar(20)
	fees	int(11)
	Address	varchar(30)
	city	varchar(20)
	coach_name	varchar(30)
FK	coach_id	varchar(10)
FK	batch_id	varchar(30)
	join_date	date
	DOB	date
FK	Ground_id	varchar(10)

Coach

PK	Coach_id	varchar(10)
	coach_name	varchar(30)
CH	age	int(11)
UNI	mobile_no	int(10)
	sports_name	varchar(20)
	salary	int(11)
	city	varchar(20)
FK	batch_id	varchar(10)
	Experience	varchar(10)
	Join_Date	date
FK	Ground_ID	varchar(10)

Batch

PK	Batch_ID	varchar(10)
	Batch_name	varchar(20)
FK	sports_ID	varchar(20)
	batch_day	varchar(30)
	Sports_name	varchar(10)
	Batch_time	time

Ground

PK	Ground_ID	varchar(10)
	Ground_name	varchar(30)
	sports_name	varchar(30)
	day	varchar(10)
	time	time
	location	varchar(20)

Sports

PK	sports_ID	varchar(10)
	sports_name	varchar(20)
	equipments	varchar(30)

Practice_test

FK	member_id	varchar(10)
FK	coach_id	varchar(10)
	sports_name	int(11)
	pmarks1	int(11)
	pmarks2	int(11)
	pmarks3	int(11)
	pmarks4	int(11)
	percentage	varchar(10)

STRUCTURE OF TABLES

Members table This table contains members information at sports academy.

```
MariaDB [sports_academy]> desc members;
+--------------+--------------+------+-----+---------+-------+
| Field        | Type         | Null | Key | Default | Extra |
+--------------+--------------+------+-----+---------+-------+
| Members_ID   | varchar(10)  | NO   | PRI | NULL    |       |
| Fname        | varchar(15)  | YES  |     | NULL    |       |
| Lname        | varchar(15)  | YES  |     | NULL    |       |
| age          | int(11)      | NO   |     | NULL    |       |
| mobile       | int(10)      | NO   | UNI | NULL    |       |
| sports_name  | varchar(20)  | YES  |     | NULL    |       |
| fees         | int(11)      | NO   |     | NULL    |       |
| Address      | varchar(30)  | YES  |     | NULL    |       |
| city         | varchar(20)  | YES  |     | NULL    |       |
| coach_name   | varchar(30)  | YES  |     | NULL    |       |
| coach_id     | varchar(10)  | YES  | MUL | NULL    |       |
| batch_id     | varchar(30)  | YES  | MUL | NULL    |       |
| join_date    | date         | YES  |     | NULL    |       |
| DOB          | date         | YES  |     | NULL    |       |
| Ground_id    | varchar(10)  | YES  | MUL | NULL    |       |
+--------------+--------------+------+-----+---------+-------+
15 rows in set (0.009 sec)
```

Coach table This table contains coach information who guide the members at sports academy.

```
MariaDB [sports_academy]> desc coach;
+--------------+--------------+------+-----+---------+-------+
| Field        | Type         | Null | Key | Default | Extra |
+--------------+--------------+------+-----+---------+-------+
| coach_id     | varchar(10)  | NO   | PRI | NULL    |       |
| coach_name   | varchar(30)  | YES  |     | NULL    |       |
| age          | int(11)      | YES  |     | NULL    |       |
| mobile_no    | int(10)      | NO   | UNI | NULL    |       |
| sports_name  | varchar(20)  | YES  |     | NULL    |       |
| salary       | int(11)      | YES  |     | NULL    |       |
| city         | varchar(20)  | YES  |     | NULL    |       |
| batch_id     | varchar(10)  | YES  | MUL | NULL    |       |
| Experience   | varchar(10)  | YES  |     | NULL    |       |
| Join_Date    | date         | YES  |     | NULL    |       |
| Ground_ID    | varchar(10)  | YES  | MUL | NULL    |       |
+--------------+--------------+------+-----+---------+-------+
11 rows in set (0.009 sec)
```

Batch table This table contains batch information provided for members and coaches.

```
MariaDB [sports_academy]> desc batch;
+-------------+-------------+------+-----+---------+-------+
| Field       | Type        | Null | Key | Default | Extra |
+-------------+-------------+------+-----+---------+-------+
| Batch_id    | varchar(10) | NO   | PRI | NULL    |       |
| Batch_name  | varchar(20) | YES  |     | NULL    |       |
| Sports_id   | varchar(20) | YES  | MUL | NULL    |       |
| Batch_day   | varchar(20) | YES  |     | NULL    |       |
| Sports_Name | varchar(10) | YES  |     | NULL    |       |
| Batch_Time  | time        | YES  |     | NULL    |       |
+-------------+-------------+------+-----+---------+-------+
6 rows in set (0.013 sec)
```

Ground table This table contains ground information like which batch requires which ground at what time and day.

```
MariaDB [sports_academy]> desc ground;
+-------------+-------------+------+-----+---------+-------+
| Field       | Type        | Null | Key | Default | Extra |
+-------------+-------------+------+-----+---------+-------+
| Ground_id   | varchar(10) | NO   | PRI | NULL    |       |
| Ground_Name | varchar(30) | NO   |     | NULL    |       |
| Sports_Name | varchar(30) | YES  |     | NULL    |       |
| Day         | varchar(10) | YES  |     | NULL    |       |
| Time        | time        | NO   |     | NULL    |       |
| location    | varchar(20) | YES  |     | NULL    |       |
+-------------+-------------+------+-----+---------+-------+
6 rows in set (0.007 sec)
```

Sports table This table contains Sports ID , Name which are held at sports academy.

```
MariaDB [sports_academy]> desc sports;
+-------------+-------------+------+-----+---------+-------+
| Field       | Type        | Null | Key | Default | Extra |
+-------------+-------------+------+-----+---------+-------+
| Sports_id   | varchar(10) | NO   | PRI | NULL    |       |
| Sports_Name | varchar(20) | YES  | UNI | NULL    |       |
| Equipments  | varchar(30) | YES  |     | NULL    |       |
+-------------+-------------+------+-----+---------+-------+
3 rows in set (0.009 sec)
```

Practice_test table contains members Practicing marks details with overall performance.

```
MariaDB [sports_academy]> desc practice_test;
+-------------+-------------+------+-----+---------+-------+
| Field       | Type        | Null | Key | Default | Extra |
+-------------+-------------+------+-----+---------+-------+
| Member_id   | varchar(10) | NO   | MUL | NULL    |       |
| coach_id    | varchar(10) | NO   | MUL | NULL    |       |
| sports_name | varchar(30) | YES  |     | NULL    |       |
| Pmarks1     | int(11)     | YES  |     | NULL    |       |
| Pmarks2     | int(11)     | YES  |     | NULL    |       |
| Pmarks3     | int(11)     | YES  |     | NULL    |       |
| Pmarks4     | int(11)     | YES  |     | NULL    |       |
| percentage  | varchar(10) | YES  |     | NULL    |       |
+-------------+-------------+------+-----+---------+-------+
8 rows in set (0.009 sec)
```

CONTENTS OF TABLES

Members

```
MariaDB [sports_academy]> select * from members;
```

Members_ID	Fname	Lname	age	mobile	sports_name	fees	Address	city	coach_name	coach_id	batch_id	join_date	DOB	Ground_id
M001	Murali	Swamy	25	808210983	Cricket	30000	C/04 Hari Mahal CHS sec-09	Nerul	Azhar Khan	C101	B201	2019-04-23	1997-06-16	G401
M002	Manoj	Shree	27	2147483647	Football	40000	Flat-301 Madhur CHS sec-05	Vashi	Aryan Jha	C102	B204	2020-12-20	1995-09-26	G402
M003	Raj	Shetty	22	924654313	Boxing	35000	31/Gokul CHS sec-09	Panvel	Rishav Patel	C110	B212	2021-01-24	2000-12-06	G405
M004	Gaurav	Joshi	24	828607503	Wrestling	25000	f29 vkhan plot-125	Turbhe	Vasant More	C111	B211	2020-11-14	1998-03-09	G406
M005	Gauri	Khanna	23	932456002	Cricket	45000	D-501 Rema society plot-12	Panvel	Ram Sharma	C106	B203	2022-06-10	1999-02-14	G401
M006	Rishav	Sharma	24	833356011	Basketball	30000	B/001 Sharma villa plot-99	Mumbai	Ishant Singh	C107	B210	2021-06-19	1998-07-11	G404
M007	Nisha	Roy	26	929156708	Badminton	20000	Room-11 Amresh chawl plot-144	Ghansoli	Tejal Shah	C104	B209	2020-10-29	1996-03-30	G403
M008	Abhishek	Kumar	16	909266754	Cricket	40000	Room-304 Ashish chs plot-190	Kharghar	Hemant Patil	C112	B207	2022-11-13	2006-03-11	G401
M009	Ankit	Patil	18	828156302	Football	45000	Asta-vinaya complex R-901 plot	Sanpada	Aryan Jha	C102	B204	2022-05-23	2004-08-21	G402
M010	Aditya	Sawant	20	91098734	Wrestling	15000	31/Varad Society C-wing plot-2	Thane	Vasant More	C111	B211	2021-06-13	2002-03-07	G406
M011	Aditi	More	21	810237690	Badminton	10000	F/201 Shiv-Dham CHS	Panvel	Tejal Shah	C104	B209	2020-04-13	2001-10-08	G403
M012	Andy	Waghmare	17	901102372	Boxing	50000	204 Murari Sanyog CHS	Panvel	Matt Matthew	C108	B206	2019-02-23	2005-06-28	G405
M013	Chirag	Sorte	21	720165892	Volleyball	20000	301 Murari Sanyog CHS	Panvel	Ramesh Jadhav	C105	B208	2020-02-20	2001-04-20	G408
M014	Akshay	Sawant	23	930220192	Handball	25000	A-101 Sai Ashish Apt sec-09	Panvel	Heena Khan	C109	B205	2020-12-19	1999-10-09	G407
M015	Saurav	Shukla	29	628104501	Boxing	35000	A/31 Rose villa road	Khandeshwar	Matt Matthew	C108	B206	2016-03-20	1993-09-19	G405
M016	Arif	Khan	15	910645378	Football	37000	Villa Parle rd B/901	Thane	John Paul	C103	B202	2019-03-04	2007-10-06	G402
M017	Ivan	Fernandes	25	809126758	Cricket	31000	J20-30 Mary road	Santacruz	Ram Sharma	C106	B203	2020-12-30	1997-07-16	G401
M018	Vidyut	Joshi	22	701958968	Basketball	20000	F-2090 Parvati Niwas	Uran	Ishant Singh	C107	B210	2018-09-11	2000-01-31	G404
M019	Viraj	Singh	28	912056875	Handball	30000	Prajakta CHS B/295	Airoli	Heena Khan	C109	B205	2022-03-15	1994-07-21	G407
M020	Jagjit	Patel	29	820679812	Handball	20000	G91 Honors Villa	Mumbai	Heena Khan	C109	B205	2021-10-25	1993-05-18	G407

Coach

```
MariaDB [sports_academy]> select * from coach;
```

coach_id	coach_name	age	mobile_no	sports_name	salary	city	batch_id	Experience	Join_Date	Ground_ID
C101	Azhar Khan	32	921092736	Cricket	30000	Airoli	B201	4 years	2018-09-21	G401
C102	Aryan Jha	35	82012938	Football	32000	Thane	B204	3 years	2021-12-20	G402
C103	John Paul	39	712548900	Football	42000	Vashi	B202	6 years	2016-02-27	G402
C104	Tejal Shah	30	2147483647	Badminton	15000	Juinagar	B209	2 years	2020-11-05	G403
C105	Ramesh Jadhav	33	908126740	Volleyball	25000	Pen	B208	3 years	2019-04-10	G408
C106	Ram Sharma	49	820457289	Cricket	50000	Alibaug	B203	15 years	2013-07-07	G401
C107	Ishant Singh	40	929457281	Basketball	40000	Thane	B210	13 years	2015-09-17	G404
C108	Matt Matthew	37	821034870	Boxing	30000	Dadar	B206	6 years	2019-08-11	G405
C109	Heena Khan	38	810234869	Handball	30000	Uran	B205	7 years	2018-05-07	G407
C110	Rishav Patel	42	701839485	Boxing	15000	Vashi	B212	10 years	2016-08-14	G405
C111	Vasant More	36	803456798	Wrestling	25000	Kurla	B211	4 years	2018-03-24	G406
C112	Hemant Patil	48	70398210	Cricket	35000	Dadar	B207	8 years	2017-06-14	G401

Sports

```
MariaDB [sports_academy]> select * from sports;
```

Sports_id	Sports_Name	Equipments
S301	Cricket	Bat & Ball
S302	Football	FootBall & Cleats
S303	Handball	HandBall
S304	Volleyball	VolleyBall & Ankle Braces
S305	Basketball	Basket and Basketball
S306	Badminton	Rackets and Net
S307	Wrestling	Wrestling Mat
S308	Boxing	Boxing Gloves
S309	NULL	NULL

Batch

```
MariaDB [sports_academy]> select * from batch;
+----------+---------------+-----------+------------+--------------+------------+
| Batch_id | Batch_name    | Sports_id | Batch_day  | Sports_Name  | Batch_Time |
+----------+---------------+-----------+------------+--------------+------------+
| B201     | Cricket B01   | S301      | Mon - Fri  | Cricket      | 10:30:00   |
| B202     | Football B01  | S302      | Mon - Thur | Football     | 09:30:00   |
| B203     | Cricket B02   | S301      | Sat - Sun  | Cricket      | 07:30:00   |
| B204     | Football B02  | S302      | Sat - Sun  | Football     | 07:00:00   |
| B205     | Handball B01  | S303      | Mon - Sat  | Handball     | 17:00:00   |
| B206     | Boxing B01    | S308      | Mon - Thur | Boxing       | 08:00:00   |
| B207     | Cricket B03   | S301      | Mon - Sat  | Cricket      | 08:30:00   |
| B208     | Volleyball B01| S304      | Mon - Fri  | Volleyball   | 17:30:00   |
| B209     | Badminton B01 | S306      | Tues - Sat | Badminton    | 18:30:00   |
| B210     | Basketball B01| S305      | Mon - Wed  | Basketball   | 11:30:00   |
| B211     | Wrestling B01 | S307      | Mon - Sat  | Wrestling    | 11:00:00   |
| B212     | Boxing B02    | S308      | Fri - Sun  | Boxing       | 08:30:00   |
| B213     | NULL          | NULL      | NULL       | NULL         | NULL       |
+----------+---------------+-----------+------------+--------------+------------+
```

Ground

```
MariaDB [sports_academy]> select * from ground;
+-----------+-----------------------------+-------------+------------+----------+-------------+
| Ground_id | Ground_Name                 | Sports_Name | Day        | Time     | location    |
+-----------+-----------------------------+-------------+------------+----------+-------------+
| G401      | Mahatma Gandhi Ground       | Cricket     | Mon - Sun  | 08:00:00 | Nerul       |
| G402      | Pandit J.N stadium          | Football    | Mon - Sun  | 07:00:00 | Vashi       |
| G403      | Indira Gandhi Indoor Stadium| Badminton   | Tues - Sat | 18:00:00 | Navi Mumbai |
| G404      | Rajiv Gandhi Indoor Stadium | Basketball  | Mon - Wed  | 11:00:00 | Mumbai      |
| G405      | Federation Club             | Boxing      | Mon - Sun  | 08:00:00 | Panvel      |
| G406      | Dangal Wrestling Studio     | Wresting    | Mon - Sat  | 10:30:00 | Airoli      |
| G407      | Hands-on studio             | Handball    | Mon - Sat  | 16:30:00 | Kharghar    |
| G408      | Gmat volley                 | Volleyball  | Mon - Fri  | 17:00:00 | Thane       |
+-----------+-----------------------------+-------------+------------+----------+-------------+
```

Practice_test

```
MariaDB [sports_academy]> select * from practice_test;
+-----------+----------+------------+---------+---------+---------+---------+------------+
| Member_id | coach_id | sports_name | Pmarks1 | Pmarks2 | Pmarks3 | Pmarks4 | percentage |
+-----------+----------+------------+---------+---------+---------+---------+------------+
| M001      | C101     | Cricket    |      43 |      59 |      63 |      81 | 61.50%     |
| M002      | C102     | Football   |      53 |      63 |      62 |      80 | 64.50%     |
| M003      | C110     | Boxing     |      73 |      69 |      82 |      80 | 76.00%     |
| M004      | C111     | Wresting   |      53 |      61 |      72 |      50 | 59.00%     |
| M005      | C106     | Cricket    |      63 |      71 |      59 |      63 | 64.00%     |
| M006      | C107     | Basketball |      59 |      61 |      79 |      60 | 64.75%     |
| M007      | C104     | Badminton  |      43 |      51 |      66 |      70 | 57.50%     |
| M008      | C112     | Cricket    |      71 |      71 |      79 |      85 | 76.50%     |
| M009      | C102     | Football   |      63 |      65 |      75 |      83 | 71.50%     |
| M010      | C111     | Wrestling  |      83 |      85 |      86 |      89 | 85.75%     |
| M011      | C104     | Badminton  |      61 |      69 |      74 |      78 | 70.50%     |
| M012      | C108     | Boxing     |      74 |      79 |      84 |      90 | 81.75%     |
| M013      | C105     | Volleyball |      43 |      46 |      49 |      47 | 46.25%     |
| M014      | C109     | Handball   |      90 |      92 |      90 |      91 | 90.75%     |
| M015      | C108     | Boxing     |      40 |      34 |      31 |      33 | 34.50%     |
| M016      | C103     | Football   |      73 |      76 |      79 |      83 | 77.75%     |
| M017      | C106     | Cricket    |      63 |      68 |      80 |      81 | 73.00%     |
| M018      | C107     | Basketball |      66 |      70 |      78 |      81 | 73.75%     |
| M019      | C109     | Handball   |      61 |      68 |      71 |      80 | 70.00%     |
| M020      | C109     | Handball   |      71 |      78 |      81 |      80 | 77.50%     |
+-----------+----------+------------+---------+---------+---------+---------+------------+
```

SUBQUERIES

1.Display members details where practice percentage is greater than 70%.

➢ select fname,lname,sports_name from members where members_id in (select member_id from practice_test where percentage>='70.00%');

```
+-------------+-------------+-------------+
| fname       | lname       | sports_name |
+-------------+-------------+-------------+
| Raj         | Shetty      | Boxing      |
| Abhishek    | Kumar       | Cricket     |
| Ankit       | Patil       | Football    |
| Aditya      | Sawant      | Wrestling   |
| Aditi       | More        | Badminton   |
| Andy        | Waghmare    | Boxing      |
| Akshay      | Sawant      | Handball    |
| Arif        | Khan        | Football    |
| Ivan        | Fernandes   | Cricket     |
| Vidyut      | Joshi       | Basketball  |
| Viraj       | Singh       | Handball    |
| Jagjit      | Patel       | Handball    |
+-------------+-------------+-------------+
```

2.Find out coach details whose ground name ends with "m".

➢Select coach_id,coach_name from coach where ground_id IN (select ground_id from ground where ground_name like '%m');

```
+-----------+--------------+
| coach_id  | coach_name   |
+-----------+--------------+
| C102      | Aryan Jha    |
| C103      | John Paul    |
| C104      | Tejal Shah   |
| C107      | Ishant Singh |
+-----------+--------------+
```

3.With the help of batch table find out coach details which are related to cricket.

> ➢ select * from coach where batch_id in (select batch_id from batch where sports_name='cricket');

coach_id	coach_name	age	mobile_no	sports_name	salary	city	batch_id	Experience	Join_Date	Ground_ID
C101	Azhar Khan	32	921092736	Cricket	30000	Airoli	B201	4 years	2018-09-21	G401
C106	Ram Sharma	49	820457289	Cricket	50000	Alibaug	B203	15 years	2013-07-07	G401
C112	Hemant Patil	48	70398210	Cricket	35000	Dadar	B207	8 years	2017-06-14	G401

4.Find the members with highest percentage in each sports.

> ➢ select fname,lname,age,sports_name from members where members_id in (select member_id from practice_test group by sports_name having max(percentage));

fname	lname	age	sports_name
Murali	Swamy	25	Cricket
Manoj	Shree	27	Football
Raj	Shetty	22	Boxing
Gaurav	Joshi	24	Wrestling
Rishav	Sharma	24	Basketball
Nisha	Roy	26	Badminton
Chirag	Sorte	21	Volleyball
Akshay	Sawant	23	Handball

JOINS

1.Display details of batches and their respective coaches in one table.

➤ select b.batch_id,b.batch_name,b.sports_name,c.coach_id, c.coach_name from batch b inner join coach c on b.batch_id=c.batch_id;

```
+-----------+----------------+--------------+----------+---------------+
| batch_id  | batch_name     | sports_name  | coach_id | coach_name    |
+-----------+----------------+--------------+----------+---------------+
| B201      | Cricket B01    | Cricket      | C101     | Azhar Khan    |
| B204      | Football B02   | Football     | C102     | Aryan Jha     |
| B202      | Football B01   | Football     | C103     | John Paul     |
| B209      | Badminton B01  | Badminton    | C104     | Tejal Shah    |
| B208      | Volleyball B01 | Volleyball   | C105     | Ramesh Jadhav |
| B203      | Cricket B02    | Cricket      | C106     | Ram Sharma    |
| B210      | Basketball B01 | Basketball   | C107     | Ishant Singh  |
| B206      | Boxing B01     | Boxing       | C108     | Matt Matthew  |
| B205      | Handball B01   | Handball     | C109     | Heena Khan    |
| B212      | Boxing B02     | Boxing       | C110     | Rishav Patel  |
| B211      | Wrestling B01  | Wrestling    | C111     | Vasant More   |
| B207      | Cricket B03    | Cricket      | C112     | Hemant Patil  |
+-----------+----------------+--------------+----------+---------------+
```

2.Display the basic information of members and their respective coaches in one table.

➢ select m.members_id,m.fname,m.sports_name,m.batch_id
c.coach_id,c.coach_name,c.experience,c.ground_id from members m
left join coach c on m.coach_id=c.coach_id ;

```
+------------+----------+------------+----------+----------+---------------+------------+-----------+
| members_id | fname    | sports_name | batch_id | coach_id | coach_name    | experience | ground_id |
+------------+----------+------------+----------+----------+---------------+------------+-----------+
| M001       | Murali   | Cricket    | B201     | C101     | Azhar Khan    | 4 years    | G401      |
| M002       | Manoj    | Football   | B204     | C102     | Aryan Jha     | 3 years    | G402      |
| M003       | Raj      | Boxing     | B212     | C110     | Rishav Patel  | 10 years   | G405      |
| M004       | Gaurav   | Wrestling  | B211     | C111     | Vasant More   | 4 years    | G406      |
| M005       | Gauri    | Cricket    | B203     | C106     | Ram Sharma    | 15 years   | G401      |
| M006       | Rishav   | Basketball | B210     | C107     | Ishant Singh  | 13 years   | G404      |
| M007       | Nisha    | Badminton  | B209     | C104     | Tejal Shah    | 2 years    | G403      |
| M008       | Abhishek | Cricket    | B207     | C112     | Hemant Patil  | 8 years    | G401      |
| M009       | Ankit    | Football   | B204     | C102     | Aryan Jha     | 3 years    | G402      |
| M010       | Aditya   | Wrestling  | B211     | C111     | Vasant More   | 4 years    | G406      |
| M011       | Aditi    | Badminton  | B209     | C104     | Tejal Shah    | 2 years    | G403      |
| M012       | Andy     | Boxing     | B206     | C108     | Matt Matthew  | 6 years    | G405      |
| M013       | Chirag   | Volleyball | B208     | C105     | Ramesh Jadhav | 3 years    | G408      |
| M014       | Akshay   | Handball   | B205     | C109     | Heena Khan    | 7 years    | G407      |
| M015       | Saurav   | Boxing     | B206     | C108     | Matt Matthew  | 6 years    | G405      |
| M016       | Arif     | Football   | B202     | C103     | John Paul     | 6 years    | G402      |
| M017       | Ivan     | Cricket    | B203     | C106     | Ram Sharma    | 15 years   | G401      |
| M018       | Vidyut   | Basketball | B210     | C107     | Ishant Singh  | 13 years   | G404      |
| M019       | Viraj    | Handball   | B205     | C109     | Heena Khan    | 7 years    | G407      |
| M020       | Jagjit   | Handball   | B205     | C109     | Heena Khan    | 7 years    | G407      |
+------------+----------+------------+----------+----------+---------------+------------+-----------+
```

3.Display first 30 records for every possibility from batch and sports table.

➢ select b.batch_id,b.batch_name,s.sports_name,b.batch_time from batch b cross join sports s limit 30;

```
+-----------+----------------+---------------+------------+
| batch_id  | batch_name     | sports_name   | batch_time |
+-----------+----------------+---------------+------------+
| B201      | Cricket B01    | NULL          | 10:30:00   |
| B201      | Cricket B01    | Badminton     | 10:30:00   |
| B201      | Cricket B01    | Basketball    | 10:30:00   |
| B201      | Cricket B01    | Boxing        | 10:30:00   |
| B201      | Cricket B01    | Cricket       | 10:30:00   |
| B201      | Cricket B01    | Football      | 10:30:00   |
| B201      | Cricket B01    | Handball      | 10:30:00   |
| B201      | Cricket B01    | Volleyball    | 10:30:00   |
| B201      | Cricket B01    | Wrestling     | 10:30:00   |
| B202      | Football B01   | NULL          | 09:30:00   |
| B202      | Football B01   | Badminton     | 09:30:00   |
| B202      | Football B01   | Basketball    | 09:30:00   |
| B202      | Football B01   | Boxing        | 09:30:00   |
| B202      | Football B01   | Cricket       | 09:30:00   |
| B202      | Football B01   | Football      | 09:30:00   |
| B202      | Football B01   | Handball      | 09:30:00   |
| B202      | Football B01   | Volleyball    | 09:30:00   |
| B202      | Football B01   | Wrestling     | 09:30:00   |
| B203      | Cricket B02    | NULL          | 07:30:00   |
| B203      | Cricket B02    | Badminton     | 07:30:00   |
| B203      | Cricket B02    | Basketball    | 07:30:00   |
| B203      | Cricket B02    | Boxing        | 07:30:00   |
| B203      | Cricket B02    | Cricket       | 07:30:00   |
| B203      | Cricket B02    | Football      | 07:30:00   |
| B203      | Cricket B02    | Handball      | 07:30:00   |
| B203      | Cricket B02    | Volleyball    | 07:30:00   |
| B203      | Cricket B02    | Wrestling     | 07:30:00   |
| B204      | Football B02   | NULL          | 07:00:00   |
| B204      | Football B02   | Badminton     | 07:00:00   |
| B204      | Football B02   | Basketball    | 07:00:00   |
+-----------+----------------+---------------+------------+
```

4.Display basic records of members from members table and all percentage from practice_test table.

➢ select m.members_id,m.fname,m.lname,m.sports_name, p.coach_id, p.sports_name,p.percentage from members m right join practice_test p on m.members_id=p.member_id;

members_id	fname	lname	sports_name	coach_id	sports_name	percentage
M001	Murali	Swamy	Cricket	C101	Cricket	61.50%
M002	Manoj	Shree	Football	C102	Football	64.50%
M003	Raj	Shetty	Boxing	C110	Boxing	76.00%
M004	Gaurav	Joshi	Wrestling	C111	Wrestling	59.00%
M005	Gauri	Khanna	Cricket	C106	Cricket	64.00%
M006	Rishav	Sharma	Basketball	C107	Basketball	64.75%
M007	Nisha	Roy	Badminton	C104	Badminton	57.50%
M008	Abhishek	Kumar	Cricket	C112	Cricket	76.50%
M009	Ankit	Patil	Football	C102	Football	71.50%
M010	Aditya	Sawant	Wrestling	C111	Wrestling	85.75%
M011	Aditi	More	Badminton	C104	Badminton	70.50%
M012	Andy	Waghmare	Boxing	C108	Boxing	81.75%
M013	Chirag	Sorte	Volleyball	C105	Volleyball	46.25%
M014	Akshay	Sawant	Handball	C109	Handball	90.75%
M015	Saurav	Shukla	Boxing	C108	Boxing	34.50%
M016	Arif	Khan	Football	C103	Football	77.75%
M017	Ivan	Fernandes	Cricket	C106	Cricket	73.00%
M018	Vidyut	Joshi	Basketball	C107	Basketball	73.75%
M019	Viraj	Singh	Handball	C109	Handball	70.00%
M020	Jagjit	Patel	Handball	C109	Handball	77.50%

VIEWS

1.Create a view consisting few records of members and coach.

➢ create view Participant as select
m.members_id,m.fname,m.lname,m.sports_name,c.coach_id,c.coach
_name,c.experience from members m inner join coach c on
m.coach_id=c.coach_id;

```
+------------+----------+-----------+------------+----------+---------------+------------+
| members_id | fname    | lname     | sports_name | coach_id | coach_name    | experience |
+------------+----------+-----------+------------+----------+---------------+------------+
| M001       | Murali   | Swamy     | Cricket     | C101     | Azhar Khan    | 4 years    |
| M002       | Manoj    | Shree     | Football    | C102     | Aryan Jha     | 3 years    |
| M003       | Raj      | Shetty    | Boxing      | C110     | Rishav Patel  | 10 years   |
| M004       | Gaurav   | Joshi     | Wrestling   | C111     | Vasant More   | 4 years    |
| M005       | Gauri    | Khanna    | Cricket     | C106     | Ram Sharma    | 15 years   |
| M006       | Rishav   | Sharma    | Basketball  | C107     | Ishant Singh  | 13 years   |
| M007       | Nisha    | Roy       | Badminton   | C104     | Tejal Shah    | 2 years    |
| M008       | Abhishek | Kumar     | Cricket     | C112     | Hemant Patil  | 8 years    |
| M009       | Ankit    | Patil     | Football    | C102     | Aryan Jha     | 3 years    |
| M010       | Aditya   | Sawant    | Wrestling   | C111     | Vasant More   | 4 years    |
| M011       | Aditi    | More      | Badminton   | C104     | Tejal Shah    | 2 years    |
| M012       | Andy     | Waghmare  | Boxing      | C108     | Matt Matthew  | 6 years    |
| M013       | Chirag   | Sorte     | Volleyball  | C105     | Ramesh Jadhav | 3 years    |
| M014       | Akshay   | Sawant    | Handball    | C109     | Heena Khan    | 7 years    |
| M015       | Saurav   | Shukla    | Boxing      | C108     | Matt Matthew  | 6 years    |
| M016       | Arif     | Khan      | Football    | C103     | John Paul     | 6 years    |
| M017       | Ivan     | Fernandes | Cricket     | C106     | Ram Sharma    | 15 years   |
| M018       | Vidyut   | Joshi     | Basketball  | C107     | Ishant Singh  | 13 years   |
| M019       | Viraj    | Singh     | Handball    | C109     | Heena Khan    | 7 years    |
| M020       | Jagjit   | Patel     | Handball    | C109     | Heena Khan    | 7 years    |
+------------+----------+-----------+------------+----------+---------------+------------+
```

2.Create a view of member details consisiting coach name, ground id where ground = "Indra Gandhi Indoor Stadium".

➢ create view IGIGround as select members_id,fname,lname,mobile,fees,join_date,coach_name,ground_id from members where coach_id in(select coach_id from coach where ground_id in (select ground_id from ground where ground_name='Indira Gandhi Indoor Stadium'));

```
+------------+-------+-------+-----------+-------+------------+------------+----------+
| members_id | fname | lname | mobile    | fees  | join_date  | coach_name | ground_id |
+------------+-------+-------+-----------+-------+------------+------------+----------+
| M007       | Nisha | Roy   | 929156708 | 20000 | 2020-10-29 | Tejal Shah | G403     |
| M011       | Aditi | More  | 810237690 | 10000 | 2020-04-13 | Tejal Shah | G403     |
+------------+-------+-------+-----------+-------+------------+------------+----------+
```

3.Create a view name details containing members information, coach information, ground information in one table.

➤ create view Details as (select m.members_id,m.fname,m.lname,m.age members_age,m.fees,m.sports_name,c.coach_name,c.age coach_age,c.salary,g.ground_id,g.ground_name from members m inner join coach c on m.coach_id=c.coach_id inner join ground g on c.ground_id=g.ground_id);

members_id	fname	lname	members_age	fees	sports_name	coach_name	coach_age	salary	ground_id	ground_name
M001	Murali	Swamy	25	30000	Cricket	Azhar Khan	32	30000	G401	Mahatma Gandhi Ground
M002	Manoj	Shree	27	40000	Football	Aryan Jha	35	32000	G402	Pandit J.N stadium
M003	Raj	Shetty	22	35000	Boxing	Rishav Patel	42	15000	G405	Federation Club
M004	Gaurav	Joshi	24	25000	Wrestling	Vasant More	36	25000	G406	Dangal Wrestling Studio
M005	Gauri	Khanna	23	45000	Cricket	Ram Sharma	49	50000	G401	Mahatma Gandhi Ground
M006	Rishav	Sharma	24	30000	Basketball	Ishant Singh	40	40000	G404	Rajiv Gandhi Indoor Stadium
M007	Nisha	Roy	26	20000	Badminton	Tejal Shah	30	15000	G403	Indira Gandhi Indoor Stadium
M008	Abhishek	Kumar	16	40000	Cricket	Hemant Patil	48	35000	G401	Mahatma Gandhi Ground
M009	Ankit	Patil	18	45000	Football	Aryan Jha	35	32000	G402	Pandit J.N stadium
M010	Aditya	Sawant	20	15000	Wrestling	Vasant More	36	25000	G406	Dangal Wrestling Studio
M011	Aditi	More	21	10000	Badminton	Tejal Shah	30	15000	G403	Indira Gandhi Indoor Stadium
M012	Andy	Waghmare	17	50000	Boxing	Matt Matthew	37	30000	G405	Federation Club
M013	Chirag	Sorte	21	20000	Volleyball	Ramesh Jadhav	33	25000	G408	Gmat volley
M014	Akshay	Sawant	23	25000	Handball	Heena Khan	38	30000	G407	Hands-on studio
M015	Saurav	Shukla	29	35000	Boxing	Matt Matthew	37	30000	G405	Federation Club
M016	Arif	Khan	15	37000	Football	John Paul	39	42000	G402	Pandit J.N stadium
M017	Ivan	Fernandes	25	31000	Cricket	Ram Sharma	49	50000	G401	Mahatma Gandhi Ground
M018	Vidyut	Joshi	22	20000	Basketball	Ishant Singh	40	40000	G404	Rajiv Gandhi Indoor Stadium
M019	Viraj	Singh	28	30000	Handball	Heena Khan	38	30000	G407	Hands-on studio
M020	Jagjit	Patel	29	20000	Handball	Heena Khan	38	30000	G407	Hands-on studio