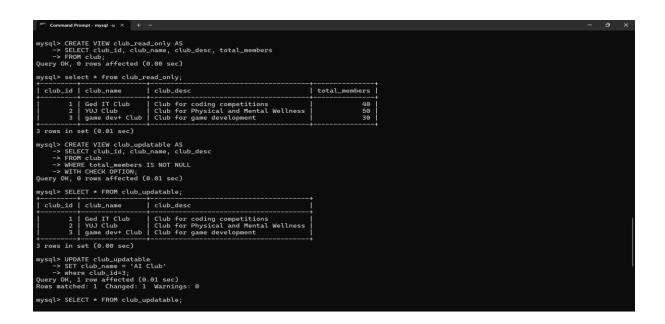
Assignment No 3

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Roll No: 89

Batch:B4

Title: Execute DDL statements which demonstrate the use of views. Try to update the base table using its corresponding view. Also consider restrictions on updatable views and perform view creation from multiple tables.



```
mysql> UPDATE club_updatable
-> SET club_name = 'AI Club'
-> where club_id=3;
Query OK, 1 row affected (0.01 sec)
Rows matched: 1 Changed: 1 Warnings: 0
mysql> SELECT * FROM club_updatable;
  club_id | club_name
                                                  | club_desc
                1 | Ged IT Club
2 | YUJ Club
3 | AI Club
                                                 | Club for coding competitions
| Club for Physical and Mental Wellness
| Club for game development
3 rows in set (0.00 sec)
mysql> CREATE VIEW club_ordered AS
-> SELECT * FROM club
-> ORDER BY total_members DESC;
Query OK, 0 rows affected (0.02 sec)
mysql> SELECT * FROM club_ordered;
  club_id | club_name
                                                  club_desc
                                                                                                                                      | total_members
                                                                                                                                                                       admin_id
                2 | YUJ Club
1 | Ged IT Club
3 | AI Club
                                                 | Club for Physical and Mental Wellness
| Club for coding competitions
| Club for game development
                                                                                                                                                                 50
40
30
   rows in set (0.02 sec)
mysql> CREATE VIEW club_with_admin AS
-> SELECT c.club_id, c.club_name, c.total_members, m.admin_id, m.admin_name
-> FROM club c
-> JOIN member m ON c.admin_id = m.admin_id;
ERROR 1954 (42522): Unknown column 'm.admin_id' in 'field list'
```

```
3 | AI Club
                                        | Club for game development
                                                                                                                                30 |
                                                                                                                                                    3 |
3 rows in set (0.02 sec)
mysql> CREATE VIEW club_with_admin AS
   -> SELECT c.club_id, c.club_name, c.total_members, m.admin_id, m.admin_name
   -> FROM club c
   -> JOIN member m ON c.admin_id = m.admin_id;
ERROR 1054 (42522): Unknown column 'm.admin_id' in 'field list'
mysql> desc member;
 | Field
                                                | Null | Key | Default | Extra |
                       | Type
  member_id | int(11)
member_name | varchar(100)
                                                                         NULL
NULL
                                                   NO
                                                               PRI
                                                   YES
2 rows in set (0.01 sec)
mysql> CREATE VIEW club_with_admin AS
   -> SELECT c.club_id, c.club_name, c.total_members, m.member_id, m.member_name
   -> FROM club c
   -> JOIN member m ON c.admin_id = m.member_id;
Query OK, 0 rows affected (0.00 sec)
mysql> SELECT * FROM club_with_admin;
 | club_id | club_name
                                        | total_members | member_id | member_name
                                                                                         Shreya Phalke
Sanika Mohite
Sakshi Sonawane
                   Ged IT Club
YUJ Club
                                                             40
50
                   AI Club
                                                             30
3 rows in set (0.01 sec)
mysql> CREATE VIEW club_aggregate AS
```

```
Command Prompt - mysql -u ×
mysql> CREATE VIEW club_with_admin AS
-> SELECT c.club_id, c.club_name, c.total_members, m.member_id, m.member_name
-> FROM club c
-> JOIN member m ON c.admin_id = m.member_id;
Query OK, 0 rows affected (0.00 sec)
 mysql> SELECT * FROM club_with_admin;
  club_id | club_name | total_members | member_id | member_name
            1 | Ged IT C
2 | YUJ Club
3 | AI Club
                                                                             1 |
2 |
3 |
                                                                                   Shreya Phalke
Sanika Mohite
Sakshi Sonawane
                  Ged IT Club
YUJ Club
                                                         40
50
                                                         30
3 rows in set (0.01 sec)
mysql> CREATE VIEW club_aggregate AS
-> SELECT COUNT(club_id) AS total_clubs, SUM(total_members) AS total_members_count
-> FROM club;
Query OK, 0 rows affected (0.02 sec)
mysql> CREATE VIEW club_aggregate AS
->;
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version for the right syntax to use near '' at line 1
mysql> SELECT * FROM club_aggregate;
   total_clubs | total_members_count
                   3 |
1 row in set (0.01 sec)
mysql>
```

```
mysql> CREATE VIEW club_insertable AS
-> SELECT club_name, club_desc, total_members, admin_id
-> FROM club;
Query OK, 0 rows affected (0.02 sec)
mysql> INSERT INTO club_insertable (club_name, club_desc, total_members, admin_id)
-> VALUES ('EPEC Club', 'Club for Event organising', 80, 3);
ERROR 1423 (HY000): Field of view 'college.club_insertable' underlying table doesn't have a default value
mysql> DESC club;
                                                                     Null | Key
                                  | Type
   Field
                                                                                             | Default | Extra |
   club_id | int(11)
club_name | varchar(100)
club_desc | varchar(100)
total_members | int(11)
admin_id | int(11)
                                                                     NO
YES
YES
YES
YES
                                                                                                NULL
NULL
NULL
NULL
 .
5 rows in set (0.02 sec)
mysql> ALTER TABLE club MODIFY club_id INT AUTO_INCREMENT;
Query OK, 3 rows affected (0.05 sec)
Records: 3 Duplicates: 0 Warnings: 0
mysql> INSERT INTO club_insertable (club_name, club_desc, total_members, admin_id)
    -> VALUES ('EPEC Club', 'Club for Event organizing', 80, 3);
Query OK, 1 row affected (0.00 sec)
mysql> select * from club_insertable;
 club_name | club_desc
                                                                                                                   .
| total_members | admin_id |
   Ged IT Club | Club for coding competitions
YUJ Club | Club for Physical and Mental Wellness
AI Club | Club for game development
EPEC Club | Club for Event organizing
                                                                                                                                              40
50
30
80
 .
4 rows in set (0.00 sec)
 mysql>|
```

