```
MariaDB [academic]> show tables;
+------------------+
| Tables_in_academic |
+------------------+
| advises          |
| announcement     |
| calendar         |
| class_room       |
| courses          |
| department       |
| eligible_courses |
| instructor       |
| prereq           |
| project          |
| section          |
| staff            |
| student          |
| takes            |
| teaches          |
| test             |
| time_slot        |
| users            |
+------------------+
18 rows in set (0.000 sec)
```

```
MariaDB [academic]> select * from announcement;
+-----------------+------------+-------------------+------------+
| announcement_id | subject    | description       | date       |
+-----------------+------------+-------------------+------------+
|               1 | fee portal | fee portal opened | 20/12/2020 |
+-----------------+------------+-------------------+------------+
1 row in set (0.000 sec)

MariaDB [academic]> select * from calendar;
+-----------+------------+---------+
| date      | event      | holiday |
+-----------+------------+---------+
| 2/3/2019  | NULL       | false   |
| 3/3/2020  | good friday| true    |
+-----------+------------+---------+
2 rows in set (0.000 sec)

MariaDB [academic]> select * from classroom;
ERROR 1146 (42S02): Table 'academic.classroom' doesn't exist
MariaDB [academic]> select * from class_room;
+----------+---------+----------+
| building | room_no | capacity |
+----------+---------+----------+
| jalang   |     202 |       21 |
| talang   |     233 |       23 |
| tilang   |     212 |       34 |
+----------+---------+----------+
3 rows in set (0.000 sec)

MariaDB [academic]> select * from courses;
+-----------+------------------+---------------+---------+-------------+
| course_id | dept_name        | course_title  | credits | course_type |
+-----------+------------------+---------------+---------+-------------+
| 1024      | mechanical       | power systems |       4 | core        |
| 1123      | HUMANITY         | media         |       2 | GCE         |
| 1212      | computer science | dbms          |       3 | core        |
| 1213      | electrical       | signals       |       3 | PME         |
| 1312      | civil            | GEOTECH       |       4 | PME         |
+-----------+------------------+---------------+---------+-------------+
5 rows in set (0.000 sec)
```

```
MariaDB [academic]> select * from department;
+------------------+-----------+---------+
| dept_name        | building  | budget  |
+------------------+-----------+---------+
| civil            | jalng     |  343545 |
| computer science | tilang    | 1000000 |
| electrical       | tilang    |  566777 |
| HUMANITY         | brinda    |    NULL |
| mechanical       | talang    |  422434 |
+------------------+-----------+---------+
5 rows in set (0.000 sec)

MariaDB [academic]> select * from eligble_courses;
ERROR 1146 (42S02): Table 'academic.eligble_courses' doesn't exist
MariaDB [academic]> select * from eligible_courses;
+---------------+------------+----------+------+
| instructor_id | dept_name  | semester | year |
+---------------+------------+----------+------+
| 2             | electrical |        5 | 2019 |
| 3             | electrical |        2 | 2020 |
+---------------+------------+----------+------+
2 rows in set (0.000 sec)

MariaDB [academic]> select * from instructor;
+---------------+-----------------+------------------+--------+---------+------------+------------------+
| instructor_id | instructor_name | dept_name        | salary | address | mobile     | email            |
+---------------+-----------------+------------------+--------+---------+------------+------------------+
| 1             | mrinal          | computer science | 100000 | sfddfgf | 8080808080 | mrinal@gmail.com |
| 2             | deepak          | computer science | 100000 | ffrdgfg | 9191919191 | deepak@gmail.com |
| 3             | sandeep         | electrical       | 100000 | efrege  | 9999999    | sandeep@gmai.com |
+---------------+-----------------+------------------+--------+---------+------------+------------------+
3 rows in set (0.000 sec)
```

```
MariaDB [academic]> select * from prereq;
+-----------+-----------+
| course_id | prereq_id |
+-----------+-----------+
| 1213      | 1214      |
| 1312      | 1213      |
+-----------+-----------+
2 rows in set (0.000 sec)

MariaDB [academic]> select * from project;
+---------------+------------+------------+--------------+-------------------+-----------+
| instructor_id | student_id | project_id | project_name | description       | status    |
+---------------+------------+------------+--------------+-------------------+-----------+
| 2             | 111701010  | 1          | toy          | make a toy        | finished  |
| 2             | 1117013    | 2          | dbms         | create database   | pending   |
| 3             | 1117013    | 3          | compilers    | create a compiler | finsished |
+---------------+------------+------------+--------------+-------------------+-----------+
3 rows in set (0.000 sec)

MariaDB [academic]> select * from section ;
+-----------+--------+----------+------+----------+---------+
| course_id | sec_id | semester | year | building | room_no |
+-----------+--------+----------+------+----------+---------+
| 1312      | 10     | 6        | 2019 | jalang   | 202     |
| 1123      | 15     | 6        | 2018 | talang   | 233     |
| 1212      | 12     | 7        | 2019 | talang   | 233     |
| 1024      | 13     | 8        | 2013 | tilang   | 212     |
+-----------+--------+----------+------+----------+---------+
4 rows in set (0.000 sec)

MariaDB [academic]> select * from staff;
+------+----------+----------------------+--------+
| name | staff_id | position             | salary |
+------+----------+----------------------+--------+
| biju | 1        | labadmin             | 122000 |
| unni | 2        | transport management | 123122 |
+------+----------+----------------------+--------+
2 rows in set (0.000 sec)
```

```
MariaDB [academic]> select * from student;
+-------------+--------------+----------------+---------------+------------+-------------+-------------+-------------+
+-------------+--------------+----------------+--------------------+------------+------+-------+-----------------+---------+
| student_id  | student_name | dept_name      | total_creds | father_name | mother_name | mobile      |
| email       |              | semester | address           | image | dob  | year_of_joining | degree  |
+-------------+--------------+----------------+--------------------+------------+------+-------+-----------------+---------+
| 111701010   | sravankumar  | computer science |         168 | sravan      | kumar       | 9182297666  |
| sravandasari111@gmail.com |       5 | srikakulm,andhra |       |       |             | 2017 | btech  |
| 111701012   | sajith       | computer science |         168 | sajith      | erasani     | 9676402685  |
| sajith_erasani |           6 | eluru           |       |       |             | 2017 | btech  |
| 1117013     | santosh      | electrical     |         187 | sanotsh     | dsssd       | 969594939   |
| sanod@fdsf.com |           5 | hyderabad        | NULL  |       |             | 2015 | btech  |
+-------------+--------------+----------------+--------------------+------------+------+-------+-----------------+---------+
3 rows in set (0.000 sec)

MariaDB [academic]> select * from takes;
+-----------+-----------+--------+----------+------+------------+
| student_id | course_id | sec_id | semester | year | attendance |
+-----------+-----------+--------+----------+------+------------+
| 111701010 | 1123      | 15     |        6 | 2018 |         45 |
| 111701010 | 1212      | 12     |        7 | 2019 |         76 |
| 111701012 | 1024      | 13     |        8 | 2013 |         56 |
| 111701012 | 1123      | 15     |        6 | 2018 |         89 |
| 1117013   | 1312      | 10     |        6 | 2019 |         23 |
+-----------+-----------+--------+----------+------+------------+
5 rows in set (0.000 sec)

MariaDB [academic]> select * from teaches;
Empty set (0.000 sec)

MariaDB [academic]> select * from test;
+-----------+-----------+--------+----------+------+-------+-------+-------------+--------+-------+
| student_id | course_id | sec_id | semester | year | test1 | test2 | class_tests | endsem | grade |
+-----------+-----------+--------+----------+------+-------+-------+-------------+--------+-------+
| 111701010 | 1024      | 13     |        8 | 2013 | 13    | 23    |           5 |     43 | A     |
| 1117013   | 1123      | 15     |        6 | 2018 | 31    | 23    |          65 |     12 | A     |
| 1117013   | 1312      | 10     |        6 | 2019 | 12    | 23    |           5 |     41 | B     |
+-----------+-----------+--------+----------+------+-------+-------+-------------+--------+-------+
3 rows in set (0.000 sec)
```

```
MariaDB [academic]> select * from time_slot;
+--------------+-----------+------------+----------+-----------+--------+----------+------+
| time_slot_id | day       | start_time | end_time | course_id | sec_id | semester | year |
+--------------+-----------+------------+----------+-----------+--------+----------+------+
| 1            | monday    | 10.20      | 10.50    | 1123      | 15     |        6 | 2018 |
| 2            | tuesday   | 13.10      | 2.00     | 1123      | 15     |        6 | 2018 |
| 3            | wednesday | 3.00       | 4.00     | 1123      | 15     |        6 | 2018 |
+--------------+-----------+------------+----------+-----------+--------+----------+------+
3 rows in set (0.000 sec)

MariaDB [academic]> select * from users;
+-----------+----------+-----------+---------+
| user_id   | username | password  | type    |
+-----------+----------+-----------+---------+
| 111701010 | sravan   | sravan    | student |
| 111701012 | sajith   | sajith123 | student |
| 12345     | admin    | admin123  | admin   |
+-----------+----------+-----------+---------+
3 rows in set (0.000 sec)

MariaDB [academic]> desc teaches;
+---------------+-------------+------+-----+---------+-------+
| Field         | Type        | Null | Key | Default | Extra |
+---------------+-------------+------+-----+---------+-------+
| instructor_id | varchar(20) | NO   | PRI | NULL    |       |
| sec_id        | varchar(20) | NO   | PRI | NULL    |       |
| course_id     | varchar(25) | NO   | PRI | NULL    |       |
| semester      | int(1)      | NO   | PRI | NULL    |       |
| year          | year(4)     | NO   | PRI | NULL    |       |
+---------------+-------------+------+-----+---------+-------+
5 rows in set (0.001 sec)
```

```
MariaDB [academic]> show tables;
+---------------------+
| Tables_in_academic  |
+---------------------+
| advises             |
| announcement        |
| calendar            |
| class_room          |
| courses             |
| department          |
| eligible_courses    |
| instructor          |
| prereq              |
| project             |
| public_instructor   |
| section             |
| staff               |
| student             |
| student_information |
| takes               |
| teaches             |
| test                |
| time_slot           |
| users               |
+---------------------+
20 rows in set (0.000 sec)
```

```
MariaDB [academic]> create view public_instructor as select instructor_name ,dept_name,email from instructor;
Query OK, 0 rows affected (0.025 sec)

MariaDB [academic]> select * from public_instructor;
+------------------+------------------+--------------------+
| instructor_name  | dept_name        | email              |
+------------------+------------------+--------------------+
| mrinal           | computer science | mrinal@gmail.com   |
| vinod            | electrical       | vinod@gmail.com    |
| mathews          | civil            | mathews@gmail.com  |
| senthil          | civil            | senthil@gmail.com  |
| anil             | civil            | anil@gmail.com     |
| madhukarthik     | civil            | madhu@gmail.com    |
| bavathrathan     | civil            | bavath@gmail.com   |
| mehta            | mechanical       | mehta@gmail.com    |
| seshagiri        | mechanical       | krishna@gmail.com  |
| chakravarthi     | mechanical       | chakri@gmail.com   |
| sujatha          | HUMANITY         | sujatha@gmail.com  |
| deepak           | computer science | deepak@gmail.com   |
| anoop            | HUMANITY         | anoop@gmail.com    |
| amrita           | HUMANITY         | amrita@gmail.com   |
| balakumar        | maths            | bala@gmail.com     |
| lakshmi shankar  | maths            | lakshmi@gmail.com  |
| uma              | physics          | uma@gmIL.com       |
| debarti          | chemistry        | debarti@gmail.com  |
| sandeep          | computer science | sandeep@gmai.com   |
| sahely           | computer science | sahely@gmail.com   |
| piyush           | computer science | piyush@gmail.com   |
| sukumol          | electrical       | sukumol@gmail.com  |
| swaroop          | electrical       | swaroop@gmail.com  |
| manas kumar      | electrical       | manas@gmail.com    |
| anirudh          | electrical       | anirudh@gmail.com  |
+------------------+------------------+--------------------+
25 rows in set (0.001 sec)
```

```
MariaDB [academic]> create role  admin;
Query OK, 0 rows affected (0.000 sec)

MariaDB [academic]> create role faculty;
Query OK, 0 rows affected (0.000 sec)

MariaDB [academic]> create role ar_academics;
Query OK, 0 rows affected (0.000 sec)

MariaDB [academic]> grant select,insert,delete,update on academic.* to admin
    -> ;
Query OK, 0 rows affected (0.000 sec)
```

```
MariaDB [academic]> create view student_information as select student_name,cour
se_id,course_title,test1,test2,endsem from student inner join test natural join
 courses  on student.student_id = test.student_id;
Query OK, 0 rows affected (0.004 sec)

MariaDB [academic]>
MariaDB [academic]> select * from student_information;
+--------------+-----------+--------------+-------+-------+--------+
| student_name | course_id | course_title | test1 | test2 | endsem |
+--------------+-----------+--------------+-------+-------+--------+
| sravankumar  | 1024      | power systems |   13 |    23 |     43 |
| santosh      | 1123      | media        |    31 |    23 |     12 |
| santosh      | 1312      | GEOTECH      |    12 |    23 |     41 |
+--------------+-----------+--------------+-------+-------+--------+
3 rows in set (0.001 sec)

MariaDB [academic]> grant select on academic.student_information to student;
Query OK, 0 rows affected (0.000 sec)
```

```
MariaDB [academic]> grant select on time_slot to student;
Query OK, 0 rows affected (0.000 sec)

MariaDB [academic]> grant select on announcement to student;
Query OK, 0 rows affected (0.000 sec)

MariaDB [academic]> grant select on calendar to student;
Query OK, 0 rows affected (0.000 sec)

MariaDB [academic]> grant select on  student_information to student;
Query OK, 0 rows affected (0.000 sec)

MariaDB [academic]> grant select on  courses to student;
Query OK, 0 rows affected (0.000 sec)

MariaDB [academic]> grant select on  prereq to student;
Query OK, 0 rows affected (0.000 sec)

MariaDB [academic]> grant select on  public_instructor to student;
Query OK, 0 rows affected (0.000 sec)
```

```
MariaDB [academic]> grant select,update,delete,insert on academic.* to ar_acade
mics;
Query OK, 0 rows affected (0.000 sec)
```

```
MariaDB [academic]> grant select,insert,delete,update on student_information to
 faculty;
Query OK, 0 rows affected (0.000 sec)

MariaDB [academic]> grant select,insert,delete,update on test to faculty;
Query OK, 0 rows affected (0.000 sec)

MariaDB [academic]> grant select on project to student;
Query OK, 0 rows affected (0.000 sec)

MariaDB [academic]> grant select on project to faculty;
Query OK, 0 rows affected (0.000 sec)
```

```
MariaDB [academic]> grant select on advises to faculty;
Query OK, 0 rows affected (0.000 sec)

MariaDB [academic]> grant select,update,delete on project to faculty;
Query OK, 0 rows affected (0.000 sec)

MariaDB [academic]> grant select on time_slot to faculty;
Query OK, 0 rows affected (0.000 sec)

MariaDB [academic]> grant select on teaches to faculty;
Query OK, 0 rows affected (0.000 sec)

MariaDB [academic]> grant select on calendar to faculty;
Query OK, 0 rows affected (0.000 sec)

MariaDB [academic]> grant select on sec to faculty;
ERROR 1146 (42S02): Table 'academic.sec' doesn't exist
MariaDB [academic]> grant select on section to faculty;
Query OK, 0 rows affected (0.000 sec)
```

```
MariaDB [academic]> grant select on class_room to faculty;
Query OK, 0 rows affected (0.000 sec)
```

```
MariaDB [academic]> create user 'admin123'@'localhost' identified by 'iamadmin';
Query OK, 0 rows affected (0.000 sec)

MariaDB [academic]> create user 'ar_academics'@'localhost' identified by 'aracad
';
Query OK, 0 rows affected (0.000 sec)

MariaDB [academic]> grant admin to admin123@localhost;
Query OK, 0 rows affected (0.000 sec)

MariaDB [academic]> grant ar_academics to ar_academics@localhost;
Query OK, 0 rows affected (0.000 sec)

MariaDB [academic]> create user 'sravan_sajith'@'localhost' identified by 'srava
n';
Query OK, 0 rows affected (0.000 sec)

MariaDB [academic]> create user 'mrinal'@'localhost' identified by 'mrinal123';
Query OK, 0 rows affected (0.000 sec)

MariaDB [academic]> grant student to sravan_sajith@localhost;
Query OK, 0 rows affected (0.000 sec)

MariaDB [academic]> grant faculty to mrinal@localhost;
Query OK, 0 rows affected (0.000 sec)
```