Create table student\_info:

create table student\_info(reg\_no varchar(11) primary key, name varchar(30) not null, branch varchar(50) not null, contact bigint not null, DOB date not null, date\_of\_joining date not null, address varchar(50) not null, email varchar(50) not null);

desc student\_info;

+-----------------+-------------+------+-----+---------+-------+

| Field | Type | Null | Key | Default | Extra |

+-----------------+-------------+------+-----+---------+-------+

| reg\_no | varchar(11) | NO | PRI | NULL | |

| name | varchar(30) | NO | | NULL | |

| branch | varchar(50) | NO | | NULL | |

| contact | bigint | NO | | NULL | |

| DOB | date | NO | | NULL | |

| date\_of\_joining | date | NO | | NULL | |

| address | varchar(50) | NO | | NULL | |

| email | varchar(50) | NO | | NULL | |

+-----------------+-------------+------+-----+---------+-------+

Create table subject:

create table subject(sub\_code varchar(5) primary key, sub1 int, sub2 int,sub3 int,sem varchar(5),r\_no varchar(11),foreign key(r\_no) references student\_info(reg\_no));

desc subject;

+----------+-------------+------+-----+---------+-------+

| Field | Type | Null | Key | Default | Extra |

+----------+-------------+------+-----+---------+-------+

| sub\_code | varchar(5) | NO | PRI | NULL | |

| sub1 | int | YES | | NULL | |

| sub2 | int | YES | | NULL | |

| sub3 | int | YES | | NULL | |

| sem | varchar(5) | YES | | NULL | |

| r\_no | varchar(11) | YES | MUL | NULL | |

+----------+-------------+------+-----+---------+-------+

Inserting data into student\_info:

insert into student\_info values('A123','shawin','MCA',987654321,'1998-09-16','2020-04-01','darjeeling','shawin@gmail.com');

insert into student\_info values('B101','nilanjan','MBA',321654987,'1996-08-12','2019-04-01','kolkata','nil@gmail.com');

insert into student\_info values('B102','pallab','MBA',654987321,'1996-05-29','2019-04-01','kolkata','pallab@gmail.com');

insert into student\_info values('A124','randhir','MCA', 8965327849,'1997-05-09','2020-04-01','kolkata','randhir@gmail.com');

insert into student\_info values('A125','soumya','MCA', 9867543298,'1998-08-21','2020-04-01','kolkata','soumya@gmail.com');

Inserting data into subject:

insert into subject(sub\_code,sub1,sub2,sub3,sem,r\_no) values('S01',89,78,91,3,'A123');

insert into subject(sub\_code,sub1,sub2,sub3,sem,r\_no) values('S02',90,87,95,5,'B101');

insert into subject(sub\_code,sub1,sub2,sub3,sem,r\_no) values('S03',85,77,88,5,'B102');

insert into subject(sub\_code,sub1,sub2,sub3,sem,r\_no) values('S04',85,72,88,3,'A124');

insert into subject(sub\_code,sub1,sub2,sub3,sem,r\_no) values('S05',86,67,78,3,'A125');

Showing the contents of student\_info:

select \* from student\_info;

+--------+----------+--------+------------+------------+-----------------+------------+-------------------+

| reg\_no | name | branch | contact | DOB | date\_of\_joining | address | email |

+--------+----------+--------+------------+------------+-----------------+------------+-------------------+

| A123 | shawin | MCA | 987654321 | 1998-09-16 | 2020-04-01 | darjeeling | shawin@gmail.com |

| A124 | randhir | MCA | 8965327849 | 1997-05-09 | 2020-04-01 | kolkata | randhir@gmail.com |

| A125 | soumya | MCA | 9867543298 | 1998-08-21 | 2020-04-01 | kolkata | soumya@gmail.com |

| B101 | nilanjan | MBA | 321654987 | 1996-08-12 | 2019-04-01 | kolkata | nil@gmail.com |

| B102 | pallab | MBA | 654987321 | 1996-05-29 | 2019-04-01 | kolkata | pallab@gmail.com |

+--------+----------+--------+------------+------------+-----------------+------------+--------------+

Showing the contents of subject:

select \* from subject;

+----------+------+------+------+------+------+

| sub\_code | sub1 | sub2 | sub3 | sem | r\_no |

+----------+------+------+------+------+------+

| S01 | 89 | 78 | 91 | 3 | A123 |

| S02 | 90 | 87 | 95 | 5 | B101 |

| S03 | 85 | 77 | 88 | 5 | B102 |

| S04 | 85 | 72 | 88 | 3 | A124 |

| S05 | 86 | 67 | 78 | 3 | A125 |

+----------+------+------+------+------+------+

Writing query to show the name, branch, subject, the sum of subjects as sum and calculating the average marks as avg\_marks from semester 3:

select s.name, s.branch,a.sub1,a.sub2,a.sub3,(a.sub1+a.sub2+a.sub3) as sum,((a.sub1+a.sub2+a.sub3)/3) as avg\_marks from student\_info s inner join subject a on s.reg\_no=a.r\_no where a.sem=3;

+----------+--------+------+------+------+------+-----------+

| name | branch | sub1 | sub2 | sub3 | sum | avg\_marks |

+----------+--------+------+------+------+------+-----------+

| nilanjan | MBA | 90 | 87 | 95 | 272 | 90.6667 |

| pallab | MBA | 85 | 77 | 88 | 250 | 83.3333 |

+----------+--------+------+------+------+------+-----------+

Writing query to show the name, branch, subject, the sum of subjects as sum and calculating the average marks as avg\_marks from semester 5:

select s.name, s.branch,a.sub1,a.sub2,a.sub3,(a.sub1+a.sub2+a.sub3) as sum,((a.sub1+a.sub2+a.sub3)/3) as avg\_marks from student\_info s inner join subject a on s.reg\_no=a.r\_no where a.sem=5;

+----------+--------+------+------+------+------+-----------+

| name | branch | sub1 | sub2 | sub3 | sum | avg\_marks |

+----------+--------+------+------+------+------+-----------+

| nilanjan | MBA | 90 | 87 | 95 | 272 | 90.6667 |

| pallab | MBA | 85 | 77 | 88 | 250 | 83.3333 |