1) Select all the details of courses:

```
SELECT * FROM tblcourse;
```

100 % ▼ ◄

⊞ Results 📄 Messages

	courseid	coursename	courseshortname	coursetype
1	101	computer application	BCA	UG
2	102	social work	BSW	UG
3	103	Electronics	BSCE	UG
4	104	Commersce	Bcom	UG
5	105	Maths	BSC Maths	UG
6	106	Physics	Msc physics	PG
7	107	Chemstry	Msc Chemstry	PG
8	108	Botany	Msc Botany	PG

2)Select the names of UG courses:

```
SELECT coursename FROM tblcourse WHERE coursetype= 'UG';
```

⊞ Results 📄 Messages

	coursename
1	computer application
2	social work
3	Electronics
4	Commersce
5	Maths

3)Select the name and short name of PG courses:

```
SELECT coursename,courseshortname FROM tblcourse WHERE coursetype ='PG';
```

	coursename	courseshortname
1	Physics	Msc physics
2	Chemstry	Msc Chemstry
3	Botany	Msc Botany

4)Select the details of batch:

```sql
SELECT *FROM tblbatch;
```

	batchid	batchname
1	1234	2017
2	1235	2018
3	1236	2019
4	1237	2020
5	1238	2021
6	1239	2022
7	1240	2023

5) Select details of students:

```sql
SELECT * FROM tblstudent;
```

	studentid	student_name	student_gender	Student_dob	student_email	course_id	batch_id	student_mark
1	22345	Ram	male	1997-03-12	ram@gmail.com	192	2018	78
2	22346	Reshma	Female	1996-04-09	reshma@gmail.com	103	2019	92
3	22347	Amaliya	Female	2022-12-05	aami@gmail.com	273	2022	99
4	22348	Anu	Female	1999-03-11	anu@gmail.com	456	2021	88
5	22349	Arjun	male	2011-09-23	arjun@gmail.com	107	2019	76

6)insert 3 student details whose course is MCA or BCA:

	studentid	student_name	student_gender	Student_dob	student_email	course_id	batch_id	student_mark
1	22345	Ram	male	1997-03-12	ram@gmail.com	192	2018	78
2	22346	Reshma	Female	1996-04-09	reshma@gmail.com	103	2019	92
3	22347	Amaliya	Female	2022-12-05	aami@gmail.com	273	2022	99
4	22348	Anu	Female	1999-03-11	anu@gmail.com	456	2021	88
5	22349	Arjun	male	2011-09-23	arjun@gmail.com	107	2019	76
6	22350	Arun	Male	2021-10-03	arun@gmail.com	123	2011	87
7	22351	Arun	Male	2021-10-03	arun@gmail.com	123	2011	87
8	22352	Manu	Male	2021-12-03	manu@gmail.com	109	2022	92
9	22353	Priya	Female	2022-08-04	priya@gmail.com	110	2021	79

7)Select the count of male and female student:

```sql
SELECT COUNT(Case When student_Gender ='male' then 1 end)AS Total_Male,COUNT(case When Student_Gender='Female' then 1 end )As Total_Female from tblstudent;
```

	Total_Male	Total_Female
1	5	4

8)Select the details of Female Students :

SELECT student_gender FROM tblstudent WHERE student_gender= 'Female';

	student_gender
1	Female
2	Female
3	Female
4	Female

9)Select the details Males students whose course is MCA :

SELECT * FROM tblstudent WHERE student_gender= 'Female' AND course_id=110;

	studentid	student_name	student_gender	Student_dob	student_email	course_id	batch_id	student_mark
1	22353	Priya	Female	2022-08-04	priya@gmail.com	110	2021	79

10)Select the details BAA Students:

Select * from tblstudent where course_id=(select course_id from tblcourse where courseshortname='BBA')

	Student_id	Student_Name	Student_Gender	Student_DOB	Student_Email	Course_id	Batch_id	Student_Mark
1	1201	Nakul	M	2001-12-09	nakulg@gmail.com	102	2019	77
2	1209	Hitha	F	2000-09-10	hitha@gmail.com	102	2017	80

11)Select the details of BAA students whose batch is 2017-2020:

select * from tblstudent where course_id=(select course_id from tblcourse where courseshortname='BBA') and batch_id=(select batchid from tblbatch where batchname='2017-2018');

	studentid	student_name	student_gender	Student_dob	student_email	course_id	batch_id	student_mark
1	22345	Ram	male	1997-03-12	ram@gmail.com	192	2018	78
2	223566	Amal	Male	2022-09-04	amal@gmail.com	111	2018	90

12)Select all the course short name and total number of students :

```sql
Select c.courseshortname AS coursename,COUNT(*) AS Count_students FROM tblcourse c JOIN
tblstudent s ON s.course_id=c.courseid GROUP BY c.courseshortname;
```

	coursename	Count_students
1	BBA	3
2	BCA	1
3	BSCE	1
4	MCA	1

13)Select the details UG Students:

```sql
 select * from tblstudent where course_id IN(select courseid from tblcourse where
coursetype='UG');
```

	studentid	student_name	student_gender	Student_dob	student_email	course_id	batch_id	student_mark
1	22346	Reshma	Female	1996-04-09	reshma@gmail.com	103	2019	92
2	22352	Manu	Male	2021-12-03	manu@gmail.com	109	2022	92
3	22354	Achu	Male	2022-03-01	achu@123gmail.c...	111	2022	46
4	22355	Maya	Female	2022-04-07	maya@gmail.com	111	2021	78
5	223566	Amal	Male	2022-09-04	amal@gmail.com	111	2018	90

14)Select the details of PG Students:

```sql
select * from tblstudent where course_id IN(select courseid from tblcourse where
coursetype='PG');
```

	studentid	student_name	student_gender	Student_dob	student_email	course_id	batch_id	student_mark
1	22349	Arjun	male	2011-09-23	arjun@gmail.com	107	2019	76
2	22353	Priya	Female	2022-08-04	priya@gmail.com	110	2021	79

15)Select the details of MCA Students whose batch is 2019-2021 :

```sql
select * from tblstudent where course_id =(select courseid from tblcourse where
courseshortname='MCA') AND batch_id=(select batchid from tblbatch where
batchname='2019-2020');
```

studentid	student_name	student_gender	Student_dob	student_email	course_id	batch_id	student_mark

16)Select the email and DOB of BCA Students :

```sql
select student_email,student_dob from tblstudent where course_id=(select courseid from
tblcourse where courseshortname='BCA');
```

Student_dob	student_email
1997-03-12	ram@gmail.com
1996-04-09	reshma@gmail.com
2022-12-05	aami@gmail.com
1999-03-11	anu@gmail.com
2011-09-23	arjun@gmail.com

17)Select the students details with their course name and batch name :

select s.student_name AS student_name, c.coursename AS coursename ,b.batchname from tblcourse c JOIN tblstudent s ON s.course_id=c.courseid JOIN tblbatch b ON b.batchid =s.batch_id;

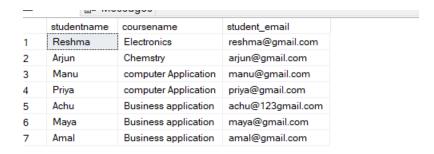|	studentid	student_name	student_gender	Student_dob	student_email	course_id	batch_id	student_mark	batchname
1	22345	Ram	male	1997-03-12	ram@gmail.com	192	2018	78	2017-2018
2	22346	Reshma	Female	1996-04-09	reshma@gmail.com	103	2019	92	2019- 2020
3	22347	Amaliya	Female	2022-12-05	aami@gmail.com	273	2022	99	2022 -2023
4	22348	Anu	Female	1999-03-11	anu@gmail.com	456	2021	88	2021-2022
5	22349	Arjun	male	2011-09-23	arjun@gmail.com	107	2019	76	2019- 2020

18)Select Batch name and number of students:

Select b.batchname AS batchname,COUNT(*) AS Count_students FROM tblbatch c JOIN tblstudent s ON s.batch_id=b.batchid GROUP BY c.batchname;

	Batch_Name	Count_students
1	2017-2018	1
2	2019-2020	3
3	2020-2021	2
4	2021-2022	1

19)Select the students name, course name and students email:

select s.student_name AS studentname,c.coursename AS coursename,S.student_email from tblcourse c JOIN tblstudent s ON s.course_id=c.courseid;

	studentname	coursename	student_email
1	Reshma	Electronics	reshma@gmail.com
2	Arjun	Chemstry	arjun@gmail.com
3	Manu	computer Application	manu@gmail.com
4	Priya	computer Application	priya@gmail.com
5	Achu	Business application	achu@123gmail.com
6	Maya	Business application	maya@gmail.com
7	Amal	Business application	amal@gmail.com

20)Select the Students details and their Batch name also :

select s.*,b.batchname AS batchname from tblbatch b JOIN tblstudent s ON s.batch_id=b.batchid;

	studentid	student_name	student_gender	Student_dob	student_email	course_id	batch_id	student_mark	batchname
1	22345	Ram	male	1997-03-12	ram@gmail.com	192	2018	78	2017-2018
2	22346	Reshma	Female	1996-04-09	reshma@gmail.com	103	2019	92	2019- 2020
3	22347	Amaliya	Female	2022-12-05	aami@gmail.com	273	2022	99	2022 -2023
4	22348	Anu	Female	1999-03-11	anu@gmail.com	456	2021	88	2021-2022
5	22349	Arjun	male	2011-09-23	arjun@gmail.com	107	2019	76	2019- 2020
6	22352	Manu	Male	2021-12-03	manu@gmail.com	109	2022	92	2022 -2023
7	22353	Priya	Female	2022-08-04	priya@gmail.com	110	2021	79	2021-2022
8	22354	Achu	Male	2022-03-01	achu@123gmail.c...	111	2022	46	2022 -2023

21)Select the count of male and female students in batch wise Sample output:

select b.batchname,COUNT(case when student_gender='Male' then 1 end) AS Total_Male,COUNT(case when student_gender='Female' then 1 end) AS Total_Female from tblstudent s JOIN tblbatch b ON b.batchid =s.batch_id GROUP BY b.batchname;

	batchname	Total_Male	Total_Female
1	2017-2018	2	0
2	2019- 2020	1	1
3	2021-2022	0	3
4	2022 -2023	2	1

22)Select the name of the BCA Student who have Maximum Mark :

select student_name from tblstudent where student_mark=(select MAX(student_mark) from tblstudent where course_id=(select courseid from tblcourse where coursename='MCA') and student_email='M');

student_name

23)Select the Male MCA Student who have Minimum Mark

select student_name from tblstudent where student_mark=(select MIN(student_mark) from

```sql
tblstudent where course_id=(select courseid from tblcourse where coursename='MCA') and
student_gender='M');
```

student_name

24)Select the students details of UG Students who have greater than the average mark:

```sql
select * from tblstudent where student_mark>(select AVG(student_mark) from tblstudent where
course_id IN (select courseid from tblcourse where coursetype='UG')) AND course_id IN (select
courseid from tblcourse where coursetype='UG');
```

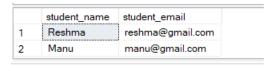|	studentid	student_name	student_gender	Student_dob	student_email	course_id	batch_id	student_mark
1	22346	Reshma	Female	1996-04-09	reshma@gmail.com	103	2019	92
2	22352	Manu	Male	2021-12-03	manu@gmail.com	109	2022	92
3	223566	Amal	Male	2022-09-04	amal@gmail.com	111	2018	90

✅ Query executed successfully.

25)Select the BCA student details who have Max Mark:

```sql
select * from tblstudent where student_mark=(select MAX(student_mark) from tblstudent where
course_id IN (select courseid from tblcourse where courseshortname='BCA'));
```

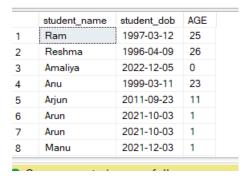|	studentid	student_name	student_gender	Student_dob	student_email	course_id	batch_id	student_mark
1	22346	Reshma	Female	1996-04-09	reshma@gmail.com	103	2019	92

26)Select Name and Email of the students who have second highest mark:

```sql
select student_name,student_email from tblstudent where student_mark=(select MAX(student_mark)
from tblstudent where student_mark<(select MAX(student_mark) from tblstudent));
```

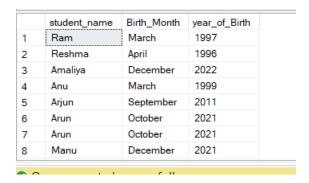|	student_name	student_email
1	Reshma	reshma@gmail.com
2	Manu	manu@gmail.com

27)Select the Dob and Current Age of All students :

```sql
select student_name,student_dob,datediff(YY,student_dob,getdate()) as AGE from tblstudent;
```

	student_name	student_dob	AGE
1	Ram	1997-03-12	25
2	Reshma	1996-04-09	26
3	Amaliya	2022-12-05	0
4	Anu	1999-03-11	23
5	Arjun	2011-09-23	11
6	Arun	2021-10-03	1
7	Arun	2021-10-03	1
8	Manu	2021-12-03	1

28)Select the Student name , Month name of birth and year of birth for all the students Sample output:

```sql
select student_name,DATENAME(MONTH,DATEADD(MONTH,MONTH(student_dob),-1)) AS
Birth_Month,YEAR(student_dob)AS year_of_Birth from tblstudent;
```
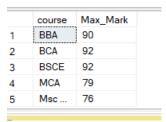
	student_name	Birth_Month	year_of_Birth
1	Ram	March	1997
2	Reshma	April	1996
3	Amaliya	December	2022
4	Anu	March	1999
5	Arjun	September	2011
6	Arun	October	2021
7	Arun	October	2021
8	Manu	December	2021

29)Select the Email and Student DOB of MCA Female Students:

```sql
select student_email ,student_dob from tblstudent where course_id=(select courseid from
tblcourse where courseshortname='MCA') AND student_gender='Female';
```

	student_email	student_dob
1	priya@gmail.com	2022-08-04

30)Select the name of all the students who have maximum mark in course wise

```sql
select c.courseshortname As course,MAX(s.student_mark)AS Max_Mark from tblcourse c JOIN
tblstudent s ON s.course_id=c.courseid GROUP BY c.courseshortname;
```
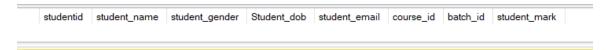
	course	Max_Mark
1	BBA	90
2	BCA	92
3	BSCE	92
4	MCA	79
5	Msc ...	76

31)Select the Details students whose year of birth less than 1995

```sql
select * from tblstudent where YEAR(student_dob)<1995;
```

studentid	student_name	student_gender	Student_dob	student_email	course_id	batch_id	student_mark

33)Select details of BCA Students whose year of birth between 1992 and 1996

```
select * from tblstudent where course_id=(select courseid from tblcourse where
courseshortname='BCA') AND YEAR(student_dob) BETWEEN 1992 AND 1995;
```

studentid	student_name	student_gender	Student_dob	student_email	course_id	batch_id	student_mark

34) Select the details of Male PG Students:

```
select * from tblstudent where student_gender ='Male' AND course_id IN (select courseid from
tblcourse where coursetype='PG');
```

	Student_id	Student_Name	Student_Gender	Student_DOB	Student_Email	Course_id	Batch_id	Student_Mark
1	1200	Adith	M	2000-02-12	adith@gmail.com	103	2019	97
2	1206	JITHIN	M	1999-06-01	jithin@gmail.com	103	2020	97

35)Select the details of BCA Students who have greater than average mark 35. Select the details BAA –

2019-2022 Batch Students:

```
select * from tblstudent where student_mark>(select AVG(student_mark)from tblstudent where
course_id IN(select courseid from tblcourse where courseshortname='BCA')) AND course_id
IN(select courseid from tblcourse where courseshortname='BCA');
```

	studentid	student_name	student_gender	Student_dob	student_email	course_id	batch_id	student_mark
1	22346	Reshma	Female	1996-04-09	reshma@gmail.com	103	2019	92

36)Select the name of student having maximum age?

```
select student_name from tblstudent ORDER BY DATEDIFF(YY,student_dob,getdate()) DESC OFFSET
0 ROWS FETCH FIRST 1 ROWS ONLY;
```

	student_name
1	Reshma

37)Select the name and email of the BCA Students whose have Minimum age

```
select student_name,student_email from tblstudent where course_id=(select courseid from
tblcourse where courseshortname='BCA') ORDER BY DATEDIFF(YY,student_dob,getdate()) ASC OFFSET
0 ROWS FETCH FIRST 1 ROWS ONLY;
```

	student_name	student_email
1	Reshma	reshma@gmail.com
2	Manu	manu@gmail.com

38)Select the details of the students in descending order of their DOB

```sql
select * from tblstudent ORDER BY Student_dob DESC;
```

	studentid	student_name	student_gender	Student_dob	student_email	course_id	batch_id	student_mark
1	22347	Amaliya	Female	2022-12-05	aami@gmail.com	273	2022	99
2	223566	Amal	Male	2022-09-04	amal@gmail.com	111	2018	90
3	22353	Priya	Female	2022-08-04	priya@gmail.com	110	2021	79
4	22355	Maya	Female	2022-04-07	maya@gmail.com	111	2021	78
5	22354	Achu	Male	2022-03-01	achu@123gmail.com	111	2022	46
6	22352	Manu	Male	2021-12-03	manu@gmail.com	109	2022	92
7	22350	Arun	Male	2021-10-03	arun@gmail.com	123	2011	87
8	22351	Arun	Male	2021-10-03	arun@gmail.com	123	2011	87
9	22349	Arjun	male	2011-09-23	arjun@gmail.com	107	2019	76
10	22348	Anu	Female	1999-03-11	anu@gmail.com	456	2021	88
11	22345	Ram	male	1997-03-12	ram@gmail.com	192	2018	78
12	22346	Reshma	Female	1996-04-09	reshma@gmail.com	103	2019	92

39) Select the details of the students have mark between 65 and 91

```sql
select * from tblstudent where student_mark BETWEEN 65 AND 91;
```

	studentid	student_name	student_gender	Student_dob	student_email	course_id	batch_id	student_mark
1	22345	Ram	male	1997-03-12	ram@gmail.com	192	2018	78
2	22348	Anu	Female	1999-03-11	anu@gmail.com	456	2021	88
3	22349	Arjun	male	2011-09-23	arjun@gmail.com	107	2019	76
4	22350	Arun	Male	2021-10-03	arun@gmail.com	123	2011	87
5	22351	Arun	Male	2021-10-03	arun@gmail.com	123	2011	87
6	22353	Priya	Female	2022-08-04	priya@gmail.com	110	2021	79
7	22355	Maya	Female	2022-04-07	maya@gmail.co...	111	2021	78

40) Select the details of BCA Students in their mark wise:

```sql
select * from tblstudent where course_id=(select courseid from tblcourse where courseshortname
='BCA') ORDER BY student_mark DESC;
```

	studentid	student_name	student_gender	Student_dob	student_email	course_id	batch_id	student_mark
1	22346	Reshma	Female	1996-04-09	reshma@gmail.com	103	2019	92