

ASSIGNMENT 4

1.tblcourse- Courseid(P.K,A.I),CourseName,Coiurseshortname,Coursetype

```
CREATE TABLE tblcourse(course_id int PRIMARY KEY NOT NULL IDENTITY(1,1),course_name varchar(50) NOT NULL,course_shrtname varchar(50) NOT NULL,course_type varchar(50) NOT NULL);
```

```
INSERT INTO [dbo].[tblcourse]([course_name],[course_shrtname],[course_type])VALUES('Bachelor of Computer Application','BCA','UG'),('Master of Computer Application','MCA','PG'),('BA Animation','BAA','UG')
```

2.tblbatch-Batchid(P.K,A.I),BatchName

```
CREATE TABLE tblbatch(batch_id int PRIMARY KEY NOT NULL IDENTITY(1,1),batch_name varchar(50));
```

```
INSERT INTO [dbo].[tblbatch]([batch_name])VALUES('2017-2020'),('2018-2021'),('2019-2022'),('2018-2020'),('2019-2021')
```

3.tblstudent -

Studentid(P.K,A.I),Student_Name,Student_Gender,Student_Dob,Student_Email,Courseid, Batchid,Student_mark

```
CREATE TABLE tblstudent(student_id int PRIMARY KEY identity(1,1) NOT NULL,student_name varchar(50) NOT NULL,student_gender varchar(50) NOT NULL CHECK(student_gender in ('FEMALE','MALE','OTHERS')),student_dob date,student_email varchar(50) NOT NULL,course_id int NOT NULL,batch_id int NOT NULL,student_mark int NOT NULL,);
```

1.Select all details of courses

```
SELECT * FROM tblcourse;
```

	course_id	course_name	course_shrtname	course_type
1	1	Master of Computer Applications	MCA	PG
2	2	Bachelor of Computer Applications	BCA	UG
3	3	BA Animation	BAA	UG

2. Select the name of UG courses.

```
select course_name from tblcourse where course_type='UG'
```

	course_name
1	Bachelor of Computer Applications
2	BA Animation

3. Select the name and short name of PG courses.

```
select course_name, course_shrtname from tblcourse where course_type='PG'
```

	course_name	course_shrtname
1	Master of Computer Applications	MCA

4. Select the details of batches

```
SELECT * FROM tblbatch;
```

	batch_id	batch_name
1	1	2017-2020
2	2	2018-2021
3	3	2019-2022
4	4	2018-2020
5	5	2019-2021

5. Select the details of students.

```
SELECT * FROM tblstudent;
```

	student_id	student_name	student_gender	student_dob	student_email	course_id	batch_id	student_mark
2	23	Bibin Jose	Male	1995-04-11	bibin@gmail.com	2	1	58
3	33	Seema Arun	Female	1995-02-02	seema@gmail.com	2	1	65
4	34	Alaka Ajimon	Female	1996-10-11	alaka@gmail.com	2	2	88
5	35	Binitha Binoy	Female	1998-01-01	binitha@gmail.com	2	1	38
6	36	Cyril Abraham	Male	1993-03-03	cyril@gmail.com	3	1	58
7	37	Anumol Jos...	Female	1990-07-03	anu@gmail.com	1	4	24
8	38	Jomit Mathew	Male	1997-05-06	jomi@gmail.com	1	4	96
9	39	Alwin Mathew	Male	1995-12-01	alwin@gmail.com	1	5	98
10	40	Vishnu Vinod	Male	1997-06-12	vishnu@gmail.com	1	5	63
11	44	Anugraha J	Female	1995-07-10	anu@gmail.com	2	3	49
12	45	Boby Baby	Male	1996-12-08	boby@gmail.com	2	3	98
13	47	Aabbeygiou...	Male	1999-03-21	aabbey@gmail.c...	2	3	78
14	48	Anjana S	Female	1993-12-02	anjana@gmail.com	2	3	99
15	50	Jose Joe	Male	1994-10-22	jose@gmail.com	3	2	89
16	51	Jishnu M	Male	2000-08-28	jishnu@gmail.com	3	1	71
17	52	Anju S	Female	2000-06-11	anju@gmail.com	2	2	80
18	53	Jinumol Seb...	Female	1994-06-30	jinu@gmail.com	2	2	84
19	54	Jeenamol S...	Female	1995-01-04	jeena@gmail.com	3	3	79
20	55	Leyon Thom...	Male	1985-03-31	leyon@gmail.com	3	3	90

6. Insert 3 student details whose course is MCA or BCA.

```
insert into tblstudent values('Jishamol Sebastian','Female','12-27-1999','jisha@gmail.com',1,3,95),('Animol Saju','Female','10-21-1997','ani@gmail.com',1,4,64),('Don N K','Male','09-07-1999','don@gmail.com',1,1,95)
```

7. Select the count of male and female students.(use if case statements)

```
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	13	13

8. Select the details of Female Students.

```
select * from tblstudent where student_gender='Female'
```

Results		Messages						
	student_id	student_name	student_gender	student_dob	student_email	course_id	batch_id	student_mark
1	33	Seema Arun	Female	1995-02-02	seema@gmail.com	2	1	65
2	34	Alaka Ajimon	Female	1996-10-11	alaka@gmail.com	2	2	88
3	35	Binitha Binoy	Female	1998-01-01	binitha@gmail.com	2	1	38
4	37	Anumol Joseph	Female	1990-07-03	anu@gmail.com	1	4	24
5	44	Anugraha J	Female	1995-07-10	anu@gmail.com	2	3	49
6	48	Anjana S	Female	1993-12-02	anjana@gmail.com	2	3	99
7	52	Anju S	Female	2000-06-11	anju@gmail.com	2	2	80
8	53	Jinumol Sebastian	Female	1994-06-30	jinu@gmail.com	2	2	84
9	54	Jeenamol Sebastian	Female	1995-01-04	jeena@gmail.com	3	3	79
10	56	Jishamol Sebastian	Female	1999-12-27	jisha@gmail.com	1	3	95
11	57	Animol Saju	Female	1997-10-21	ani@gmail.com	1	4	64
12	59	Jishamol Sebastian	Female	1999-12-27	jisha@gmail.com	1	3	95
13	60	Animol Saju	Female	1997-10-21	ani@gmail.com	1	4	64

9. Select the details Males students whose course is MCA.

```
select * from tblstudent s inner join tblcourse c on c.course_id=s.course_id where c.course_shrtname='MCA' and student_gender='Male'
```

Results		Messages										
	student_id	student_name	student_gender	student_dob	student_email	course_id	batch_id	student_mark	course_id	course_name	course_shrtname	course_type
1	38	Jomit Mathew	Male	1997-05-06	jomi@gmail.com	1	4	96	1	Master of Computer Applications	MCA	PG
2	39	Alwin Mathew	Male	1995-12-01	alwin@gmail.com	1	5	98	1	Master of Computer Applications	MCA	PG
3	40	Vishnu Vinod	Male	1997-06-12	vishnu@gmail.com	1	5	63	1	Master of Computer Applications	MCA	PG
4	58	Don N K	Male	1999-09-07	don@gmail.com	1	1	95	1	Master of Computer Applications	MCA	PG

10. Select the details BAA Students.

```
select * from tblstudent s inner join tblcourse c on c.course_id=s.course_id where c.course_shrtname='BBA'
```

Results		Messages										
	student_id	student_name	student_gender	student_dob	student_email	course_id	batch_id	student_mark	course_id	course_name	course_shrtname	course_type
1	36	Cyril Abraham	Male	1993-03-03	cyril@gmail.com	3	1	58	3	BA Animation	BAA	UG
2	50	Jose Joe	Male	1994-10-22	jose@gmail.com	3	2	89	3	BA Animation	BAA	UG
3	51	Jishnu M	Male	2000-08-28	jishnu@gmail.com	3	1	71	3	BA Animation	BAA	UG
4	54	Jeenamol Sebastian	Female	1995-01-04	jeena@gmail.com	3	3	79	3	BA Animation	BAA	UG
5	55	Leyon Thomas	Male	1985-03-31	leyon@gmail.com	3	3	90	3	BA Animation	BAA	UG

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

```
select * from tblstudent s inner join tblcourse c on c.course_id=s.course_id inner join
tblbatch b on b.batch_id=s.batch_id where c.course_shrtname='BAA' and b.batch_name='2017-
2020'
```

	student_id	student_name	student_gender	student_dob	student_email	course_id	batch_id	student_mark	course_id	course_name	course_shrtname	course_type	batch_id	batch_name
1	36	Cyrl Abraham	Male	1993-03-03	cyrl@gmail.com	3	1	58	3	BA Animation	BAA	UG	1	2017-2020
2	51	Jishnu M	Male	2000-08-28	jishnu@gmail.com	3	1	71	3	BA Animation	BAA	UG	1	2017-2020

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

```
select c.course_shrtname, count(s.course_id)as count from tblstudent s inner join
tblcourse c on c.course_id=s.course_id group by c.course_shrtname
```

	course_shrtname	count
1	BAA	5
2	BCA	11
3	MCA	9

13. Select the details UG Students.

```
select * from tblstudent s inner join tblcourse c on c.course_id=s.course_id where
c.course_type='UG'
```

	student_id	student_name	student_gender	student_dob	student_email	course_id	batch_id	student_mark	course_id	course_name	course_shrtname	course_type
1	20	Amal Baby	Male	1995-10-20	amal@gmail.com	2	1	98	2	Bachelor of Computer Applications	BCA	UG
2	23	Bibin Jose	Male	1995-04-11	bibin@gmail.com	2	1	58	2	Bachelor of Computer Applications	BCA	UG
3	33	Seema Arun	Female	1995-02-02	seema@gmail.com	2	1	65	2	Bachelor of Computer Applications	BCA	UG
4	34	Alaka Ajimon	Female	1996-10-11	alaka@gmail.com	2	2	88	2	Bachelor of Computer Applications	BCA	UG
5	35	Biritha Binoy	Female	1998-01-01	binitha@gmail.com	2	1	38	2	Bachelor of Computer Applications	BCA	UG
6	36	Cyrl Abraham	Male	1993-03-03	cyrl@gmail.com	3	1	58	3	BA Animation	BAA	UG
7	44	Anugraha J	Female	1995-07-10	anu@gmail.com	2	3	49	2	Bachelor of Computer Applications	BCA	UG
8	45	Boby Baby	Male	1996-12-08	boby@gmail.com	2	3	98	2	Bachelor of Computer Applications	BCA	UG
9	47	Aabbeygiou...	Male	1999-03-21	aabbey@gmail.c...	2	3	78	2	Bachelor of Computer Applications	BCA	UG
10	48	Anjana S	Female	1993-12-02	anjana@gmail.com	2	3	99	2	Bachelor of Computer Applications	BCA	UG
11	50	Jose Joe	Male	1994-10-22	jose@gmail.com	3	2	89	3	BA Animation	BAA	UG
12	51	Jishnu M	Male	2000-08-28	jishnu@gmail.com	3	1	71	3	BA Animation	BAA	UG
13	52	Anju S	Female	2000-06-11	anju@gmail.com	2	2	80	2	Bachelor of Computer Applications	BCA	UG
14	53	Junumol Seb...	Female	1994-06-30	jinu@gmail.com	2	2	84	2	Bachelor of Computer Applications	BCA	UG
15	54	Jeenamol S...	Female	1995-01-04	jeena@gmail.com	3	3	79	3	BA Animation	BAA	UG
16	55	Leyon Thom...	Male	1985-03-31	leyon@gmail.com	3	3	90	3	BA Animation	BAA	UG

14. Select the details of PG Students.

```
select * from tblstudent s inner join tblcourse c on c.course_id=s.course_id where c.course_type='PG'
```

	student_id	student_name	student_gender	student_dob	student_email	course_id	batch_id	student_mark	course_id	course_name	course_shrtname	course_type
1	37	Anumol Joseph	Female	1990-07-03	anu@gmail.com	1	4	24	1	Master of Computer Applications	MCA	PG
2	38	Jomit Mathew	Male	1997-05-06	jomi@gmail.com	1	4	96	1	Master of Computer Applications	MCA	PG
3	39	Alwin Mathew	Male	1995-12-01	alwin@gmail.c...	1	5	98	1	Master of Computer Applications	MCA	PG
4	40	Vishnu Vinod	Male	1997-06-12	vishnu@gmail...	1	5	63	1	Master of Computer Applications	MCA	PG
5	56	Jishamol Seb...	Female	1999-12-27	jisha@gmail.c...	1	3	95	1	Master of Computer Applications	MCA	PG
6	57	Animol Saju	Female	1997-10-21	ani@gmail.com	1	4	64	1	Master of Computer Applications	MCA	PG
7	58	Don N K	Male	1999-09-07	don@gmail.com	1	1	95	1	Master of Computer Applications	MCA	PG
8	59	Jishamol Seb...	Female	1999-12-27	jisha@gmail.c...	1	3	95	1	Master of Computer Applications	MCA	PG
9	60	Animol Saju	Female	1997-10-21	ani@gmail.com	1	4	64	1	Master of Computer Applications	MCA	PG

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

```
select * from tblstudent s inner join tblcourse c on c.course_id=s.course_id inner join tblbatch b on b.batch_id=s.batch_id where c.course_shrtname='MCA' and b.batch_name='2019-2021'
```

	student_id	student_name	student_gender	student_dob	student_email	course_id	batch_id	student_mark	course_id	course_name	course_shrtname	course_type	batch_id	batch_name
1	39	Alwin Mathew	Male	1995-12-01	alwin@gmail.com	1	5	98	1	Master of Computer Applications	MCA	PG	5	2019-2021
2	40	Vishnu Vinod	Male	1997-06-12	vishnu@gmail.com	1	5	63	1	Master of Computer Applications	MCA	PG	5	2019-2021

16. Select the email and DOB of BCA Students.

```
select s.student_email,s.student_dob from tblstudent s inner join tblcourse c on c.course_id=s.course_id where c.course_shrtname='BCA'
```

	student_email	student_dob
1	amal@gmail.com	1995-10-20
2	bibin@gmail.com	1995-04-11
3	seema@gmail.com	1995-02-02
4	alaka@gmail.com	1996-10-11
5	binitha@gmail.com	1998-01-01
6	anu@gmail.com	1995-07-10
7	boby@gmail.com	1996-12-08
8	aabbey@gmail.c...	1999-03-21
9	anjana@gmail.com	1993-12-02
10	anju@gmail.com	2000-06-11
11	jju@gmail.com	1994-06-30

17. Select the students details with their course name and batch name.

```
select * from tblstudent s inner join tblcourse c on c.course_id=s.course_id inner join
tblbatch b on b.batch_id=s.batch_id
```

Results														Messages													
	student_id	student_name	student_gender	student_dob	student_email	course_id	batch_id	student_mark	course_id	course_name	course_shrtname	course_type	batch_id	batch_name													
1	20	Amal Baby	Male	1995-10-20	amal@gmail.com	2	1	98	2	Bachelor of Computer Applications	BCA	UG	1	2017-2020													
2	23	Bibin Jose	Male	1995-04-11	bbin@gmail.com	2	1	58	2	Bachelor of Computer Applications	BCA	UG	1	2017-2020													
3	33	Seema Arun	Female	1995-02-02	seema@gmail.com	2	1	65	2	Bachelor of Computer Applications	BCA	UG	1	2017-2020													
4	34	Alaka Ajimon	Female	1996-10-11	alaka@gmail.com	2	2	88	2	Bachelor of Computer Applications	BCA	UG	2	2018-2021													
5	35	Binitha Binoy	Female	1998-01-01	binitha@gmail.com	2	1	38	2	Bachelor of Computer Applications	BCA	UG	1	2017-2020													
6	36	Cyrl Abraham	Male	1993-03-03	cyrl@gmail.com	3	1	58	3	BA Animation	BAA	UG	1	2017-2020													
7	37	Anumol Jos...	Female	1990-07-03	anu@gmail.com	1	4	24	1	Master of Computer Applications	MCA	PG	4	2018-2020													
8	38	Jomit Mathew	Male	1997-05-06	jomi@gmail.com	1	4	96	1	Master of Computer Applications	MCA	PG	4	2018-2020													
9	39	Alwin Mathew	Male	1995-12-01	alwin@gmail.com	1	5	98	1	Master of Computer Applications	MCA	PG	5	2019-2021													
10	40	Vishnu Vinod	Male	1997-06-12	vishnu@gmail.com	1	5	63	1	Master of Computer Applications	MCA	PG	5	2019-2021													
11	44	Anugraha J	Female	1995-07-10	anu@gmail.com	2	3	49	2	Bachelor of Computer Applications	BCA	UG	3	2019-2022													
12	45	Boby Baby	Male	1996-12-08	boby@gmail.com	2	3	98	2	Bachelor of Computer Applications	BCA	UG	3	2019-2022													
13	47	Aabbeygiou...	Male	1999-03-21	aabbey@gmail.c...	2	3	78	2	Bachelor of Computer Applications	BCA	UG	3	2019-2022													
14	48	Anjana S	Female	1993-12-02	anjana@gmail.com	2	3	99	2	Bachelor of Computer Applications	BCA	UG	3	2019-2022													
15	50	Jose Joe	Male	1994-10-22	jose@gmail.com	3	2	89	3	BA Animation	BAA	UG	2	2018-2021													
16	51	Jishnu M	Male	2000-08-28	jishnu@gmail.com	3	1	71	3	BA Animation	BAA	UG	1	2017-2020													
17	52	Anju S	Female	2000-06-11	anju@gmail.com	2	2	80	2	Bachelor of Computer Applications	BCA	UG	2	2018-2021													
18	53	Jinamol Seb...	Female	1994-06-30	jnu@gmail.com	2	2	84	2	Bachelor of Computer Applications	BCA	UG	2	2018-2021													
19	54	Jeenamol S...	Female	1995-01-04	jeena@gmail.com	3	3	79	3	BA Animation	BAA	UG	3	2019-2022													
20	55	Leyon Thom...	Male	1985-03-31	leyon@gmail.com	3	3	90	3	BA Animation	BAA	UG	3	2019-2022													
21	56	Jishamol Se...	Female	1999-12-27	jisha@gmail.com	1	3	95	1	Master of Computer Applications	MCA	PG	3	2019-2022													
22	57	Animol Saju	Female	1997-10-21	ani@gmail.com	1	4	64	1	Master of Computer Applications	MCA	PG	4	2018-2020													
23	58	Don N K	Male	1999-09-07	don@gmail.com	1	1	95	1	Master of Computer Applications	MCA	PG	1	2017-2020													
24	59	Jishamol Se...	Female	1999-12-27	jisha@gmail.com	1	3	95	1	Master of Computer Applications	MCA	PG	3	2019-2022													
25	60	Animol Saju	Female	1997-10-21	ani@gmail.com	1	4	64	1	Master of Computer Applications	MCA	PG	4	2018-2020													

18. Select Batch name and number of students.

```
select b.batch_name, count(s.batch_id) as count from tblstudent s inner join tblbatch b on
b.batch_id=s.batch_id group by b.batch_name
```

	batch_name	count
1	2017-2020	7
2	2018-2020	4
3	2018-2021	4
4	2019-2021	2
5	2019-2022	8

19. Select the students name, course name and students email.

```
select s.student_name,c.course_name,s.student_email from tblstudent s inner join  
tblcourse c on c.course_id=s.course_id
```

	student_name	course_name	student_email
2	Bibin Jose	Bachelor of Computer Applications	bibin@gmail.com
3	Seema Arun	Bachelor of Computer Applications	seema@gmail.com
4	Alaka Ajimon	Bachelor of Computer Applications	alaka@gmail.com
5	Binitha Binoy	Bachelor of Computer Applications	binitha@gmail.com
6	Cyril Abraham	BA Animation	cyril@gmail.com
7	Anumol Joseph	Master of Computer Applications	anu@gmail.com
8	Jomit Mathew	Master of Computer Applications	jomi@gmail.com
9	Alwin Mathew	Master of Computer Applications	alwin@gmail.com
10	Vishnu Vinod	Master of Computer Applications	vishnu@gmail.com
11	Anugraha J	Bachelor of Computer Applications	anu@gmail.com
12	Boby Baby	Bachelor of Computer Applications	boby@gmail.com
13	Aabbeygious ...	Bachelor of Computer Applications	aabbey@gmail.c...
14	Anjana S	Bachelor of Computer Applications	anjana@gmail.com
15	Jose Joe	BA Animation	jose@gmail.com
16	Jishnu M	BA Animation	jishnu@gmail.com
17	Anju S	Bachelor of Computer Applications	anju@gmail.com
18	Jinamol Seba...	Bachelor of Computer Applications	jinu@gmail.com
19	Jeenamol Se...	BA Animation	jeena@gmail.com
20	Leyon Thomas	BA Animation	leyon@gmail.com
21	Jishamol Seb...	Master of Computer Applications	jisha@gmail.com
22	Animol Saju	Master of Computer Applications	ani@gmail.com
23	Don N K	Master of Computer Applications	don@gmail.com

20. Select the Students details and their Batch name also.

```
select * from tblstudent s inner join tblbatch b on b.batch_id=s.batch_id
```

	student_id	student_name	student_gender	student_dob	student_email	course_id	batch_id	student_mark	batch_id	batch_name
1	20	Amal Baby	Male	1995-10-20	amal@gmail.com	2	1	98	1	2017-2020
2	23	Bibin Jose	Male	1995-04-11	bibin@gmail.com	2	1	58	1	2017-2020
3	33	Seema Arun	Female	1995-02-02	seema@gmail....	2	1	65	1	2017-2020
4	34	Alaka Ajimon	Female	1996-10-11	alaka@gmail.c...	2	2	88	2	2018-2021
5	35	Binitha Binoy	Female	1998-01-01	binitha@gmail....	2	1	38	1	2017-2020
6	36	Cyril Abraham	Male	1993-03-03	cyril@gmail.com	3	1	58	1	2017-2020
7	37	Anumol Jos...	Female	1990-07-03	anu@gmail.com	1	4	24	4	2018-2020
8	38	Jomit Mathew	Male	1997-05-06	jomi@gmail.com	1	4	96	4	2018-2020
9	39	Alwin Mathew	Male	1995-12-01	alwin@gmail.c...	1	5	98	5	2019-2021
10	40	Vishnu Vinod	Male	1997-06-12	vishnu@gmail....	1	5	63	5	2019-2021
11	44	Anugraha J	Female	1995-07-10	anu@gmail.com	2	3	49	3	2019-2022
12	45	Boby Baby	Male	1996-12-08	boby@gmail.com	2	3	98	3	2019-2022
13	47	Aabbeygiou...	Male	1999-03-21	aabbey@gmail...	2	3	78	3	2019-2022
14	48	Anjana S	Female	1993-12-02	anjana@gmail....	2	3	99	3	2019-2022
15	50	Jose Joe	Male	1994-10-22	jose@gmail.com	3	2	89	2	2018-2021
16	51	Jishnu M	Male	2000-08-28	jishnu@gmail.c...	3	1	71	1	2017-2020
17	52	Anju S	Female	2000-06-11	anju@gmail.com	2	2	80	2	2018-2021
18	53	Jinumol Seb...	Female	1994-06-30	jinu@gmail.com	2	2	84	2	2018-2021
19	54	Jeenamol S...	Female	1995-01-04	jeena@gmail.c...	3	3	79	3	2019-2022
20	55	Leyon Thom...	Male	1985-03-31	leyon@gmail.c...	3	3	90	3	2019-2022
21	56	Jishamol Se...	Female	1999-12-27	jisha@gmail.com	1	3	95	3	2019-2022
22	57	Animol Sajju	Female	1997-10-21	ani@gmail.com	1	4	64	4	2018-2020
23	58	Don N K	Male	1999-09-07	don@gmail.com	1	1	95	1	2017-2020

21. Select the count of male and female students in batch wise.

```
select b.batch_name, 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 inner join tblbatch b on b.batch_id=s.batch_id group by b.batch_name
```

	batch_name	Total Male	Total Female
1	2017-2020	5	2
2	2018-2020	1	2
3	2018-2021	1	3
4	2019-2021	2	0
5	2019-2022	3	4

22. Select the name of the BCA Student who have Maximum Mark.

```
select * from tblstudent s inner join tblcourse c on c.course_id=s.course_id where  
c.course_shrtname='BCA' and s.student_mark=(select max(student_mark)from tblstudent)
```

	student_id	student_name	student_gender	student_dob	student_email	course_id	batch_id	student_mark	course_id	course_name	course_shrtname	course_type
1	48	Anjana S	Female	1993-12-02	anjana@gmail.com	2	3	99	2	Bachelor of Computer Applications	BCA	UG

23. Select the Male MCA Student who have Minimum Mark.

```
select * from tblstudent s inner join tblcourse c on c.course_id=s.course_id where  
c.course_shrtname='MCA' and s.student_mark=(select min(student_mark)from tblstudent)
```

Results Messages												
	student_id	student_name	student_gender	student_dob	student_email	course_id	batch_id	student_mark	course_id	course_name	course_shrtname	course_type
1	37	Anumol Joseph	Female	1990-07-03	anu@gmail.com	1	4	24	1	Master of Computer Applications	MCA	PG

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

```
select * from tblstudent s inner join tblcourse c on c.course_id=s.course_id where  
c.course_type='UG' and s.student_mark>(select avg(student_mark)from tblstudent)
```

Results Messages												
	student_id	student_name	student_gender	student_dob	student_email	course_id	batch_id	student_mark	course_id	course_name	course_shrtname	course_type
1	20	Amal Baby	Male	1995-10-20	amal@gmail.com	2	1	98	2	Bachelor of Computer Applications	BCA	UG
2	34	Alaka Ajimon	Female	1996-10-11	alaka@gmail.com	2	2	88	2	Bachelor of Computer Applications	BCA	UG
3	45	Bobby Baby	Male	1996-12-08	bobby@gmail.com	2	3	98	2	Bachelor of Computer Applications	BCA	UG
4	47	Aabbeygious Prince	Male	1999-03-21	aabbey@gmail.com	2	3	78	2	Bachelor of Computer Applications	BCA	UG
5	48	Anjana S	Female	1993-12-02	anjana@gmail.com	2	3	99	2	Bachelor of Computer Applications	BCA	UG
6	50	Jose Joe	Male	1994-10-22	jose@gmail.com	3	2	89	3	BA Animation	BAA	UG
7	52	Anju S	Female	2000-06-11	anju@gmail.com	2	2	80	2	Bachelor of Computer Applications	BCA	UG
8	53	Jinumol Sebastian	Female	1994-06-30	jinu@gmail.com	2	2	84	2	Bachelor of Computer Applications	BCA	UG
9	54	Jeenamol Sebastian	Female	1995-01-04	jeena@gmail.com	3	3	79	3	BA Animation	BAA	UG
10	55	Leyon Thomas	Male	1985-03-31	leyon@gmail.com	3	3	90	3	BA Animation	BAA	UG

25. Select the BCA student details who have Max Mark.

```
select * from tblstudent s inner join tblcourse c on c.course_id=s.course_id where  
c.course_shrtname='BCA' and s.student_mark=(select max(student_mark)from tblstudent)
```

Results Messages												
	student_id	student_name	student_gender	student_dob	student_email	course_id	batch_id	student_mark	course_id	course_name	course_shrtname	course_type
1	48	Anjana S	Female	1993-12-02	anjana@gmail.com	2	3	99	2	Bachelor of Computer Applications	BCA	UG

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

```
select student_name,student_email,student_mark from tblstudent where student_mark  
in(select max(student_mark)from tblstudent where student_mark not in (select  
max(student_mark)from tblstudent))
```

	student_name	student_email	student_mark
1	Amal Baby	amal@gmail.com	98
2	Alwin Mathew	alwin@gmail.com	98
3	Boby Baby	boby@gmail.com	98

27. Select the DOB and Current Age of All students.

```
select student_name,student_dob,year(getdate())-year(student_dob)as 'Current Age' from  
tblstudent
```

	student_name	student_dob	Current Age
1	Amal Baby	1995-10-20	27
2	Bibin Jose	1995-04-11	27
3	Seema Arun	1995-02-02	27
4	Alaka Ajimon	1996-10-11	26
5	Binitha Binoy	1998-01-01	24
6	Cyril Abraham	1993-03-03	29
7	Anumol Joseph	1990-07-03	32
8	Jomit Mathew	1997-05-06	25
9	Alwin Mathew	1995-12-01	27
10	Vishnu Vinod	1997-06-12	25
11	Anugraha J	1995-07-10	27
12	Boby Baby	1996-12-08	26
13	Aabbeygious ...	1999-03-21	23
14	Anjana S	1993-12-02	29
15	Jose Joe	1994-10-22	28
16	Jishnu M	2000-08-28	22
17	Anju S	2000-06-11	22
18	Jinumol Seba...	1994-06-30	28
19	Jeenamol Se...	1995-01-04	27
20	Leyon Thomas	1985-03-31	37
21	Jishamol Seb...	1999-12-27	23
22	Animol Saju	1997-10-21	25
23	Don N K	1999-09-07	23

28. Select the Student name, Month name of birth and year of birth for all the students.

```
select student_name,month(student_dob)as month,year(student_dob) as year from tblstudent
```

	student_name	month	year
1	Amal Baby	10	1995
2	Bibin Jose	4	1995
3	Seema Arun	2	1995
4	Alaka Ajimon	10	1996
5	Binitha Binoy	1	1998
6	Cyril Abraham	3	1993
7	Anumol Joseph	7	1990
8	Jomit Mathew	5	1997
9	Alwin Mathew	12	1995
10	Vishnu Vinod	6	1997
11	Anugraha J	7	1995
12	Boby Baby	12	1996
13	Aabbeygious ...	3	1999
14	Anjana S	12	1993
15	Jose Joe	10	1994
16	Jishnu M	8	2000
17	Anju S	6	2000
18	Jinumol Seba...	6	1994
19	Jeenamol Se...	1	1995
20	Leyon Thomas	3	1985
21	Jishamol Seb...	12	1999
22	Animol Saju	10	1997
23	Don N K	9	1999

29. Select the Email and Student DOB of MCA Female Students.

```
select s.student_email,s.student_dob from tblstudent s inner join tblcourse c on  
c.course_id=s.course_id where c.course_shrtname='MCA' and student_gender='Female'
```

	student_email	student_dob
1	anu@gmail.com	1990-07-03
2	jisha@gmail.com	1999-12-27
3	ani@gmail.com	1997-10-21

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

```
select c.course_name,s.student_name,max(student_mark)as'Maximum Mark'from tblstudent s
inner join tblcourse c on c.course_id=s.course_id where s.student_mark=(select
max(student_mark)from tblstudent)group by c.course_name,s.student_name
```

	course_name	student_name	Maximum Mark
1	Bachelor of Computer Applications	Anjana S	99

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

```
select * from tblstudent where year(student_dob)<1995 order by student_dob desc
```

	student_id	student_name	student_gender	student_dob	student_email	course_id	batch_id	student_mark
1	50	Jose Joe	Male	1994-10-22	jose@gmail.com	3	2	89
2	53	Jinumol Sebastian	Female	1994-06-30	jinu@gmail.com	2	2	84
3	48	Anjana S	Female	1993-12-02	anjana@gmail.com	2	3	99
4	36	Cyril Abraham	Male	1993-03-03	cyril@gmail.com	3	1	58
5	37	Anumol Joseph	Female	1990-07-03	anu@gmail.com	1	4	24
6	55	Leyon Thomas	Male	1985-03-31	leyon@gmail.com	3	3	90

32. Select the Course short name, Batch name, total number of students in batch and Course wise.

```
select c.course_shrtname,b.batch_name,count(s.student_id)as 'Total o. of Students' from
tblstudent s inner join tblcourse c on c.course_id=s.course_id inner join tblbatch b on
b.batch_id=s.batch_id group by c.course_shrtname,b.batch_name
```

	course_shrtname	batch_name	Total o. of Students
1	BAA	2017-2020	2
2	BCA	2017-2020	4
3	MCA	2017-2020	1
4	MCA	2018-2020	3
5	BAA	2018-2021	1
6	BCA	2018-2021	3
7	MCA	2019-2021	2
8	BAA	2019-2022	2
9	BCA	2019-2022	4
10	MCA	2019-2022	1

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

```
select * from tblstudent where year (student_dob) between 1992 and 1996 order by student_dob desc
```

	student_id	student_name	student_gender	student_dob	student_email	course_id	batch_id	student_mark
1	45	Boby Baby	Male	1996-12-08	boby@gmail.com	2	3	98
2	34	Alaka Ajimon	Female	1996-10-11	alaka@gmail.com	2	2	88
3	39	Alwin Mathew	Male	1995-12-01	alwin@gmail.com	1	5	98
4	20	Amal Baby	Male	1995-10-20	amal@gmail.com	2	1	98
5	44	Anugraha J	Female	1995-07-10	anu@gmail.com	2	3	49
6	23	Bibin Jose	Male	1995-04-11	bibin@gmail.com	2	1	58
7	33	Seema Arun	Female	1995-02-02	seema@gmail.com	2	1	65
8	54	Jeenamol Sebastian	Female	1995-01-04	jeena@gmail.com	3	3	79
9	50	Jose Joe	Male	1994-10-22	jose@gmail.com	3	2	89
10	53	Jinamol Sebastian	Female	1994-06-30	jinu@gmail.com	2	2	84
11	48	Anjana S	Female	1993-12-02	anjana@gmail.com	2	3	99
12	36	Cyril Abraham	Male	1993-03-03	cyril@gmail.com	3	1	58

34. Select the details of Male PG Students.

```
select * from tblstudent s inner join tblcourse c on c.course_id=s.course_id where c.course_type='PG' and student_gender='Male'
```

	student_id	student_name	student_gender	student_dob	student_email	course_id	batch_id	student_mark	course_id	course_name	course_shrtname	course_type
1	38	Jomit Mathew	Male	1997-05-06	jomi@gmail.com	1	4	96	1	Master of Computer Applications	MCA	PG
2	39	Alwin Mathew	Male	1995-12-01	alwin@gmail.com	1	5	98	1	Master of Computer Applications	MCA	PG
3	40	Vishnu Vinod	Male	1997-06-12	vishnu@gmail.com	1	5	63	1	Master of Computer Applications	MCA	PG
4	58	Don N K	Male	1999-09-07	don@gmail.com	1	1	95	1	Master of Computer Applications	MCA	PG

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

```
select * from tblstudent s inner join tblcourse c on c.course_id=s.course_id where c.course_shrtname='BCA' and s.student_mark>(select avg(student_mark)from tblstudent)
```

	student_id	student_name	student_gender	student_dob	student_email	course_id	batch_id	student_mark	course_id	course_name	course_shrtname	course_type
1	20	Amal Baby	Male	1995-10-20	amal@gmail.com	2	1	98	2	Bachelor of Computer Applications	BCA	UG
2	34	Alaka Ajimon	Female	1996-10-11	alaka@gmail.com	2	2	88	2	Bachelor of Computer Applications	BCA	UG
3	45	Boby Baby	Male	1996-12-08	boby@gmail.com	2	3	98	2	Bachelor of Computer Applications	BCA	UG
4	47	Aabbeygious Prince	Male	1999-03-21	aabbey@gmail.com	2	3	78	2	Bachelor of Computer Applications	BCA	UG
5	48	Anjana S	Female	1993-12-02	anjana@gmail.com	2	3	99	2	Bachelor of Computer Applications	BCA	UG
6	52	Anju S	Female	2000-06-11	anju@gmail.com	2	2	80	2	Bachelor of Computer Applications	BCA	UG
7	53	Jinamol Sebastian	Female	1994-06-30	jinu@gmail.com	2	2	84	2	Bachelor of Computer Applications	BCA	UG

36. Select the details BAA – 2019-2022 Batch Students.

```
select * from tblstudent s inner join tblcourse c on c.course_id=s.course_id inner join
tblbatch b on b.batch_id=s.batch_id where c.course_shrtname='BAA' and b.batch_name='2019-
2022'
```

Results Messages														
	student_id	student_name	student_gender	student_dob	student_email	course_id	batch_id	student_mark	course_id	course_name	course_shrtname	course_type	batch_id	batch_name
1	54	Jeenamol Sebastian	Female	1995-01-04	jeena@gmail.com	3	3	79	3	BA Animation	BAA	UG	3	2019-2022
2	55	Leyon Thomas	Male	1985-03-31	leyon@gmail.com	3	3	90	3	BA Animation	BAA	UG	3	2019-2022

37. 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
```

Results Messages	
	student_name
1	Leyon Thomas

38. Select the name and email of the BCA Students whose have Minimum age.

```
select student_name,student_email,student_dob from tblstudent s inner join tblcourse c on
s.course_id=c.course_id where c.course_shrtname='BCA' order by year(getdate())-
year(student_dob)offset 0 rows fetch first 1 rows only
```

Results Messages			
	student_name	student_email	student_dob
1	Anju S	anju@gmail.com	2000-06-11

39. Select the details of the students in descending order of their DOB.

```
select * from tblstudent order by student_dob desc
```

	student_id	student_name	student_gender	student_dob	student_email	course_id	batch_id	student_mark
3	56	Jishamol Sebastian	Female	1999-12-27	jisha@gmail.com	1	3	95
4	58	Don N K	Male	1999-09-07	don@gmail.com	1	1	95
5	47	Aabbeygious Prince	Male	1999-03-21	aabbey@gmail.com	2	3	78
6	35	Binitha Binoy	Female	1998-01-01	binitha@gmail.com	2	1	38
7	57	Animol Saju	Female	1997-10-21	ani@gmail.com	1	4	64
8	40	Vishnu Vinod	Male	1997-06-12	vishnu@gmail.com	1	5	63
9	38	Jomit Mathew	Male	1997-05-06	jomi@gmail.com	1	4	96
10	45	Boby Baby	Male	1996-12-08	boby@gmail.com	2	3	98
11	34	Alaka Ajimon	Female	1996-10-11	alaka@gmail.com	2	2	88
12	39	Alwin Mathew	Male	1995-12-01	alwin@gmail.com	1	5	98
13	20	Amal Baby	Male	1995-10-20	amal@gmail.com	2	1	98
14	44	Anugraha J	Female	1995-07-10	anu@gmail.com	2	3	49
15	23	Bibin Jose	Male	1995-04-11	bibin@gmail.com	2	1	58
16	33	Seema Arun	Female	1995-02-02	seema@gmail.com	2	1	65
17	54	Jeenamol Sebastian	Female	1995-01-04	jeena@gmail.com	3	3	79
18	50	Jose Joe	Male	1994-10-22	jose@gmail.com	3	2	89
19	53	Jinumul Sebastian	Female	1994-06-30	jinu@gmail.com	2	2	84
20	48	Anjana S	Female	1993-12-02	anjana@gmail.com	2	3	99
21	36	Cynil Abraham	Male	1993-03-03	cynil@gmail.com	3	1	58
22	37	Anumol Joseph	Female	1990-07-03	anu@gmail.com	1	4	24
23	55	Leyon Thomas	Male	1985-03-31	leyon@gmail.com	3	3	90

40. Select the details of the students have mark between 65 and 91.

```
select * from tblstudent where student_mark between 65 and 91
```

	student_id	student_name	student_gender	student_dob	student_email	course_id	batch_id	student_mark
1	33	Seema Arun	Female	1995-02-02	seema@gmail.com	2	1	65
2	34	Alaka Ajimon	Female	1996-10-11	alaka@gmail.com	2	2	88
3	47	Aabbeygious Prince	Male	1999-03-21	aabbey@gmail.com	2	3	78
4	50	Jose Joe	Male	1994-10-22	jose@gmail.com	3	2	89
5	51	Jishnu M	Male	2000-08-28	jishnu@gmail.com	3	1	71
6	52	Anju S	Female	2000-06-11	anju@gmail.com	2	2	80
7	53	Jinumul Sebastian	Female	1994-06-30	jinu@gmail.com	2	2	84
8	54	Jeenamol Sebastian	Female	1995-01-04	jeena@gmail.com	3	3	79
9	55	Leyon Thomas	Male	1985-03-31	leyon@gmail.com	3	3	90

41. Select the details of BCA Students in their mark wise.

```
select * from tblstudent s inner join tblcourse c on c.course_id=s.course_id where  
c.course_shrtname='BCA' order by s.student_mark
```

Results Messages												
	student_id	student_name	student_gender	student_dob	student_email	course_id	batch_id	student_mark	course_id	course_name	course_shrtname	course_type
1	35	Binitha Binoy	Female	1998-01-01	binitha@gmail.com	2	1	38	2	Bachelor of Computer Applications	BCA	UG
2	44	Anugraha J	Female	1995-07-10	anu@gmail.com	2	3	49	2	Bachelor of Computer Applications	BCA	UG
3	23	Bibin Jose	Male	1995-04-11	bibin@gmail.com	2	1	58	2	Bachelor of Computer Applications	BCA	UG
4	33	Seema Arun	Female	1995-02-02	seema@gmail.com	2	1	65	2	Bachelor of Computer Applications	BCA	UG
5	47	Aabbeygious Prince	Male	1999-03-21	aabbey@gmail.com	2	3	78	2	Bachelor of Computer Applications	BCA	UG
6	52	Anju S	Female	2000-06-11	anju@gmail.com	2	2	80	2	Bachelor of Computer Applications	BCA	UG
7	53	Jinumol Sebastian	Female	1994-06-30	jinu@gmail.com	2	2	84	2	Bachelor of Computer Applications	BCA	UG
8	34	Alaka Ajimon	Female	1996-10-11	alaka@gmail.com	2	2	88	2	Bachelor of Computer Applications	BCA	UG
9	45	Boby Baby	Male	1996-12-08	boby@gmail.com	2	3	98	2	Bachelor of Computer Applications	BCA	UG
10	20	Amal Baby	Male	1995-10-20	amal@gmail.com	2	1	98	2	Bachelor of Computer Applications	BCA	UG
11	48	Anjana S	Female	1993-12-02	anjana@gmail.com	2	3	99	2	Bachelor of Computer Applications	BCA	UG