

-- create table for programmer

```
create table programmer(  
name varchar(20),  
dob date,  
doj date,  
sex varchar(20),  
prof1 varchar(10),  
prof2 varchar(10),  
salary int  
);  
  
insert into programmer values ("kathir","1992-12-29","2017-07-10","Male","English","Tamil",10000);  
insert into programmer values ("Hari","1972-02-21","2000-01-19","Male","English","Tamil",16000);  
insert into programmer values ("Hema","1991-07-09","2015-04-01","Female","English","Tamil",17000);  
insert into programmer values ("Dhanush","1982-04-12","2010-07-30","Male","English","Tamil",12500);  
insert into programmer values ("Karthika","1999-09-2","2017-12-16","Female","English","Tamil",15000);  
select* from programmer;
```

	name	dob	doj	sex	prof1	prof2	salary
▶	Kathir	1990-12-29	2010-03-16	Male	C	Advanced	15000
	Hari	1997-10-09	2017-08-17	Male	Python	Basic	12000
	Hema	1993-02-23	2011-06-06	Female	JAVA	Advanced	14000
	Dhanush	2000-07-12	2012-11-19	Male	Python	Basic	12000
	Karthika	2002-04-15	2021-05-26	Female	C	Basic	10000

-- create table for software

```
create table software(  
name varchar(20),  
title varchar(20),  
dev_in varchar(20),  
scost decimal(10,5),  
dcost int,  
sold int  
);  
  
insert into software values ("Kathir","home automation","basics",576.78,4500,56);  
insert into software values ("Hari","LSR","basics",157.98,3200,32);  
insert into software values ("Hema","Parachutes","basics",396.08,6000,43);
```

```
insert into software values ("Dhanush","smart Control System","Advanced",776.87,7500,72);
```

```
insert into software values ("Karthika","VAM","basics",376.48,4000,46);
```

```
select * from software;
```

	name	title	dev_in	scost	dcost	sold
▶	Kathir	home automation	basics	576.78000	4500	56
	Hari	LSR	basics	157.98000	3200	32
	Hema	Parachutes	basics	396.08000	6000	43
	Dhanush	smart Control System	Advanced	776.87000	7500	72
	Karthika	VAM	basics	376.48000	4000	46

-- create table for studies

```
create table studies(
```

```
name varchar(20),
```

```
splace varchar(20),
```

```
course varchar(20),
```

```
ccost int
```

```
);
```

```
Select * from studies;
```

	name	splace	course	ccost
▶	Kathir	Villupuram	CSE	6000
	Hari	Panruti	ECE	5400
	Hema	Thindivanam	ECE	3400
	Dhanush	Villupuram	CSE	6500
	Karthika	Cuddalore	ECE	4500

Query-I:

1. select avg(scost) from software where dev_in="basics";
- 2.
- 3.
4. select max(sold) from software ;
5. select name,dob from programmer where month("july");
6. select * from studies where ccost=(select min(ccost) from studies);
7. select count(course) from studies where course = "ECE";

8. select (scost*sold) as REVENUE from software;
9. select *from software where name = "Hema" ;
10. select name,splace from studies;
11. select * from software where (scost*sold)>20000;
- 12.
13. select max(dcost) from software where dev_in = "basics";
- 14.
15. select count(*) from software ;
16. select count(splace) from studies where splace="villupuram";
17. select count(ccost) from studies where ccost>=5000 and ccost<10000;
18. select avg(ccost) from studies ;
19. select * from programmer where prof1="C" ;
20. select prof1,count(prof1) from programmer group by prof1 ;
21. select count(prof1) from programmer where prof1 <>"C" or prof1 <>"JAVA" ;
- 22.
- 23.
24. select name,year(doj)-year(dob) from programmer order by desc ;
- 25.
26. select * from programmer where sex = "Female" ;
27. select prof1 from programmer where sex="Male";
28. select avg(salary) from programmer ;
- 29.
30. select * from programmer where prof1<>"Java";

Query-II

- 1.
2. select name,title from software;
3. select count(sex),Gender from programmer group by sex;
- 4.
5. select name,year(dob) from programmer;

6. select name,year(doj) from programmer;
7. select name,month(dob) from programmer;
8. select name,month(doj) from programmer;
9. select prof1,count(prof1) from programmer group by prof1;
10. select prof2,count(prof2) from programmer group by prof2;
11. select count(salary) as salary_count,salary from programmer group by salary;
12. select splace,count(splace) as Institute from studies group by splace;
13. select course,count(course) as Institute from studies group by course;
14. select dev_in as developed_language,count(dev_in) as count,sum(dcost) as developed_cost_by_language from software group by dev_in;
15. select dev_in as developed_language,count(dev_in) as count,sum(scost) as developed_cost_by_language from software group by dev_in;
16. select name,dcost from software;
17. select name,sold as sales_value from software;
- 18.
- 19.
- 20.
- 21.
- 22.
23. select splace,count(splace) as Institute from studies group by splace;
24. select name,sex from programmer;
25. select name,title from software;
26. select dev_in as package_language ,count(dev_in) as count from software group by dev_in;
27. select dev_in as package_languages ,count(dev_in) as packages_count from software where dcost>1000 group by dev_in;

28. select dev_in,avg(scost),avg(dcost),count(dev_in),avg(dcost)-avg(scost) as difference from software group by dev_in ;
29. select sum(dcost),sum(scost) from software;
- 30.

Query-III:

1. SELECT max(salary) as MAX_salary,prof1 FROM programmer where prof1='C' group by prof1;
- 2.
3. SELECT max(salary) as MAX_salary,prof1 FROM programmer group by prof1;
- 4.
- 5.
6. SELECT prof2 FROM programmer GROUP BY prof2 HAVING COUNT(*) = 1;
7. SELECT name,doj FROM programmer WHERE doj = (SELECT MIN(doj) FROM programmer);
8. select count(name) as number_of_students ,splace from studies group by splace ;
- 9.
10. SELECT name FROM programmer where salary>2000 and sex= 'Female' and prof1 <> 'Python' 'JAVA';
11. SELECT course,cost FROM studies where cost = (select max(cost) from studies);
12. select count(name) as count from studies);
13. select avg(name),splace from studies where name < (select count(name)/count(name) as count from studies) group by splace;
14. select course,cost from studies where cost < (select avg(cost) as Average_fee from studies) or cost > cost < (select avg(cost) as Average_fee from studies)
15. select title from software where dcost = (select max(dcost) from software)

16. `select title from software where scost = (select min(scost) from software)`
17. `select name,sold from software where sold = (select min(sold) from software);`
18. `select dev_in, scost from software where scost = (select max(scost) from software)`
- 19.
20. `select title,dcost from software where dev_in = 'java' and dcost= (select max(dcost) from software);`
21. `select dev_in,sold from software where sold= (select max(sold) from software);`
22. `select name,sold from software where sold= (select max(sold) from software);`
23. `select name,scost from software where scost= (select max(scost) from software);`
24. `select title,sold from software where sold< (select avg(sold) from software);`
25. `SELECT name,salary FROM programmer where salary > (select max(salary) from programmer where sex = 'm') and sex='f';`
35. `select name,salary from programmer where sex='m' and salary < (select avg(salary) from programmer where sex = 'f');`