

details

field	Туре
accomplishments	varchar(50)
address_city	varchar(20)
email_ID	varchar(20)
school_id	int

address_city	email_ID	school_id	accomplishments
Banglore	jsingh@geeks.com	1020	ACM ICPC selected
Hyderabad	praveen@geeks.com	1030	Geek of the month
Delhi	rithvik@geeks.com	1012	IOI finalist
Chennai	om@geeks.com	1111	Geek of the year
Banglore	suraj@geeks.com	1008	IMO finalist

marks

field	Туре
s_id	int
school_id	int
score	int
status	varchar(20)

school_id	s_id	score	status
1004	1	23	fail
1008	6	95	pass
1012	2	97	pass
1016	7	67	pass
1020	3	100	pass

field	Туре
s_id	int
s_name	varchar(20)
s_id	s_name
1	Jack
2	Rithvik
3	Jaspreet
4	Praveen
5	Bisa

Display the number of students who have passed or failed respectively.

Select count(m.s_id) PassFailCount,m.status from marks m group by m.status;

Affected_rows: 2

PassFailCount	status
3	fail
7	pass

Question #2 Executable SQL Please Consider the below schemas/tables 3 Marks

details

field	Туре
accomplishments	varchar(50)
addrace city	varchar(20)

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email_ID	varchar(20)
school_id	int

address_city	email_ID	school_id	accomplishments
Banglore	jsingh@geeks.com	1020	ACM ICPC selected
Hyderabad	praveen@geeks.com	1030	Geek of the month
Delhi	rithvik@geeks.com	1012	IOI finalist
Chennai	om@geeks.com	1111	Geek of the year
Banglore	suraj@geeks.com	1008	IMO finalist

marks

field	Туре
s_id	int
school_id	int
score	int
status	varchar(20)

school_id	s_id	score	status
1004	1	23	fail
1008	6	95	pass
1012	2	97	pass
1016	7	67	pass
1020	3	100	pass

student

field	Туре
s_id	int
s_name	varchar(20)
o id	o nama

s_id	s_name
1	Jack

2	Rithvik
3	Jaspreet
4	Praveen
5	Bisa

Display the name of students along with their respective scores city of residence

Select s.s_name ,m.score,d.address_city from student s inner join marks m on s.s_id=m.s_id inner join details d on m.school_id=d.school_id;

Affected_rows: 4

s_name	score	address_city
Jaspreet	100	Banglore
Praveen	88	Hyderabad
Rithvik	97	Delhi
Suraj	95	Banglore

Question #3 Executable SQL Please Consider the below schemas/tables 3 Marks

details

field	Туре
accomplishments	varchar(50)

audress_city	varcnar(∠∪)
email_ID	varchar(20)
school_id	int

address_city	email_ID	school_id	accomplishments
Banglore	jsingh@geeks.com	1020	ACM ICPC selected
Hyderabad	praveen@geeks.com	1030	Geek of the month
Delhi	rithvik@geeks.com	1012	IOI finalist
Chennai	om@geeks.com	1111	Geek of the year
Banglore	suraj@geeks.com	1008	IMO finalist

marks

field	Туре
s_id	int
school_id	int
score	int
status	varchar(20)

school_id	s_id	score	status
1004	1	23	fail
1008	6	95	pass
1012	2	97	pass
1016	7	67	pass
1020	3	100	pass

student

field	Туре
s_id	int
s_name	varchar(20)

s_id	s_name
1	Jack

2	Rithvik
3	Jaspreet
4	Praveen
5	Bisa

Display the score of those students who have scored more marks than that of a student with student_id 6.

Select s_id StudentId ,score from marks where score >(select score from marks where s_id=6)

Affected_rows: 2

StudentId	score
2	97
3	100

Question #4 Executable SQL Please Consider the below schemas/tables 1 Marks

details

field	Туре
accomplishments	varchar(50)
address_city	varchar(20)
email_ID	varchar(20)
school_id	int

address_city	email_ID	school_id	accomplishments
Banglore	jsingh@geeks.com	1020	ACM ICPC selected

	Hyderabad	praveen@geeks.co	om	1030	Geek of the month
	Delhi	rithvik@geeks.com		1012	IOI finalist
	Chennai	om@geeks.com		1111	Geek of the year
	Banglore	suraj@geeks.com		1008	IMO finalist
ma	arks		Time		
	field		Туре		
	s_id		int		
	school_id		int		
	score		int		
	status		varcha	r(20)	
	school_id	s_id		score	status
	1004	1		23	fail
	1008	6		95	pass
	1012	2		97	pass
	1016	7		67	pass
	1020	3		100	pass
stu	udent				
	field		Туре		
	s_id		int		
	s_name	varchar(20)			
	s_id	s_name			
	1	Jack			
	2	R	Rithvik		
	3	J	aspreet		
	4	Praveen			
	5	В	Bisa		

accomplishments.

Select email_ld from details where accomplishments Like '%Geek%'

Affected_rows: 2

email_ld

praveen@geeks.com

om@geeks.com

Question #5 Executable SQL Please Consider the below schemas/tables 5 Marks

mass_table

field	Туре	
weight	decimal(10,4)	
weight		
5.57		
34.567		
365.253		
34.0		

Write a query to display the output as shown in the sample below.

# weight	kg	gms
# 5.57	5	570
# 34.567	34	567
# 365.253	365	253
# 34	34	0

Select weight As '#weight', floor(weight) as kg,

rounu((weight-Floor(weight)) rooo) as gins from mass_table;

Affected_rows: 4

#weight	kg	gms
5.57	5	570
34.567	34	567
365.253	365	253
34.0	34	0

Question #6 Executable SQL Please Consider the below schemas/tables 2 Marks

details

field	Туре
accomplishments	varchar(50)
address_city	varchar(20)
email_ID	varchar(20)
school_id	int

address_city	email_ID	school_id	accomplishments
Banglore	jsingh@geeks.com	1020	ACM ICPC selected
Hyderabad	praveen@geeks.com	1030	Geek of the month
Delhi	rithvik@geeks.com	1012	IOI finalist
Chennai	om@geeks.com	1111	Geek of the year
Banglore	suraj@geeks.com	1008	IMO finalist

marks

field	Туре
s_id	int
school_id	int
score	int
status	varchar(20)

school_id	s_id	score	status
1004	1	23	fail
1008	6	95	pass
1012	2	97	pass
1016	7	67	pass
1020	3	100	pass

field	Туре	
s_id	int	
s_name	varchar(20)	
s_id	s_name	
1	Jack	
2	Rithvik	
3	Jaspreet	
4	Praveen	
5	Bisa	

Display the name and email address of the student who is an 'IMO finalist'.

```
select s.s_name ,m.school_id,d.email_id
from student s
join
marks m
on s.s_id=m.s_id
join
details d
```

on m.scnooi_ia=a.scnooi_ia and d.accomplishments='IMO Finalist'

Affected_rows: 1

s_name	school_id	email_id
Suraj	1008	suraj@geeks.com

Question #7 Executable SQL Please Consider the below schemas/tables 2 Marks

details

field	Туре
accomplishments	varchar(50)
address_city	varchar(20)
email_ID	varchar(20)
school_id	int

address_city	email_ID	school_id	accomplishments
Banglore	jsingh@geeks.com	1020	ACM ICPC selected
Hyderabad	praveen@geeks.com	1030	Geek of the month
Delhi	rithvik@geeks.com	1012	IOI finalist
Chennai	om@geeks.com	1111	Geek of the year
Banglore	suraj@geeks.com	1008	IMO finalist

marks

field	Туре
o id	int

o_lu	шц
school_id	int
score	int
status	varchar(20)

school_id	s_id	score	status
1004	1	23	fail
1008	6	95	pass
1012	2	97	pass
1016	7	67	pass
1020	3	100	pass

field	Туре
s_id	int
s_name	varchar(20)

s_id	s_name
1	Jack
2	Rithvik
3	Jaspreet
4	Praveen
5	Bisa

Display the number of students who reside in Bangalore.

Select count(*) noOfStudents,address_city residentCity from details
Group by address_city
Having address_city='Banglore'

Aff	ected	rows:	1

noOfStudents	residentCity
2	Banglore

Question #8 Executable SQL Please Consider the below schemas/tables 2 Marks

details

field	Туре
accomplishments	varchar(50)
address_city	varchar(20)
email_ID	varchar(20)
school_id	int

address_city	email_ID	school_id	accomplishments
Banglore	jsingh@geeks.com	1020	ACM ICPC selected
Hyderabad	praveen@geeks.com	1030	Geek of the month
Delhi	rithvik@geeks.com	1012	IOI finalist
Chennai	om@geeks.com	1111	Geek of the year
Banglore	suraj@geeks.com	1008	IMO finalist

marks

field	Туре
s_id	int
school_id	int
score	int
status	varchar(20)

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Juliou_lu	3_IV	30010	Julus
1004	1	23	fail
1008	6	95	pass
1012	2	97	pass
1016	7	67	pass
1020	3	100	pass

field	Туре	
s_id	int	
s_name	varchar(20)	
s_id	s_name	
1	Jack	
2	Rithvik	
3	Jaspreet	
4	Praveen	
5	Bisa	

Display the name and status of those students who have a school ID in any of the following -1004, 1012,1016.

Select s.s_name Name,m.status PassFail from student s join marks m on s.s_id=m.s_id and m.school_id IN('1004','1012','1016')

Affected_rows: 2

Name	PassFail
Jack	fail
Rithvik	pass

Question #9 Executable SQL Please Consider the below schemas/tables

2 Marks

details

field	Туре
accomplishments	varchar(50)
address_city	varchar(20)
email_ID	varchar(20)
school_id	int

address_city	email_ID	school_id	accomplishments
Banglore	jsingh@geeks.com	1020	ACM ICPC selected
Hyderabad	praveen@geeks.com	1030	Geek of the month
Delhi	rithvik@geeks.com	1012	IOI finalist
Chennai	om@geeks.com	1111	Geek of the year
Banglore	suraj@geeks.com	1008	IMO finalist

marks

field	Туре
s_id	int
school_id	int
score	int
status	varchar(20)

school_id	s_id	score	status
1004	1	23	fail
1008	6	95	pass

1012	2	97	pass
1016	7	67	pass
1020	3	100	pass

field	Туре	
s_id	int	
s_name	varchar(20)	
s_id	s_name	

s_id	s_name
1	Jack
2	Rithvik
3	Jaspreet
4	Praveen
5	Bisa

Display the name and score of the students who have scored marks between 80 and 90.

Select s.s_name Name ,m.score from student s join marks m on s.s_id=m.s_id and m.score BETWEEN 80 and 90

Affected_rows: 1

Name	score
Praveen	88

field	Туре
address	varchar(50)
CGPA	decimal(3,1)
course	varchar(20)
roll	int
semester	int
vname	varchar(30)

roll	vname	address	course	semester	CGPA
1	Sai	Bangalore	Programming in C	1	9.5
2	Sri	Mysore	Programming in C	1	6.0
3	Kumar	Bangalore	Data Science	4	8.0
4	Akshay	Bangalore	Data Science	4	9.0
5	Rajesh	Bangalore	Data Science	4	9.0

List the names of the students who have enrolled in more than one course and are from â€~Bangalore'.

select count(course),vname from student2 where address='Bangalore' group by vname having count(course)>1;

Affected_rows: 2

count(course) vname

2 Kumar

Question #11 Executable SQL Please Consider the below schemas/tables

2 Marks

student2

field	Туре
address	varchar(50)
CGPA	decimal(3,1)
course	varchar(20)
roll	int
semester	int
vname	varchar(30)

roll	vname	address	course	semester	CGPA
1	Sai	Bangalore	Programming in C	1	9.5
2	Sri	Mysore	Programming in C	1	6.0
3	Kumar	Bangalore	Data Science	4	8.0
4	Akshay	Bangalore	Data Science	4	9.0
5	Rajesh	Bangalore	Data Science	4	9.0

Name the course and the location, where on average, the CGPA is more than 7.5.

select course,address,avg(cgpa) AVG_CGPA from student2 group by course,address having AVG(CGPA)>7.5

course	address	AVG_CGPA	
Programming in C	Bangalore	9.5	
Data Science	Bangalore	8.66667	
Big Data	Bangalore	8.0	

Question #12 Executable SQL Please Consider the below schemas/tables 2 Marks

student2

field	Туре
address	varchar(50)
CGPA	decimal(3,1)
course	varchar(20)
roll	int
semester	int
vname	varchar(30)

roll	vname	address	course	semester	CGPA
1	Sai	Bangalore	Programming in C	1	9.5
2	Sri	Mysore	Programming in C	1	6.0
3	Kumar	Bangalore	Data Science	4	8.0
4	Akshay	Bangalore	Data Science	4	9.0
5	Rajesh	Bangalore	Data Science	4	9.0

Display the name of toppers in each course ordered by the highest CGPA first.

Select vname ,course,cgpa,dense_rank() over (partition by course order by cgpa desc) as rankVal from student2

Affected_rows: 8

vname	course	cgpa	rankVal
Kumar	Big Data	8.0	1
Akshay	Data Science	9.0	1
Rajesh	Data Science	9.0	1
Kumar	Data Science	8.0	2
Sai	Data Structures	7.0	1
Ram	Data Structures	4.0	2
Sai	Programming in C	9.5	1
Sri	Programming in C	6.0	2

Question #13 Executable SQL Please Consider the below schemas/tables

5 Marks

student2

field	Туре
address	varchar(50)
CGPA	decimal(3,1)
course	varchar(20)
roll	int
semester	int
vname	varchar(30)

roll	vname	address	course	semester	CGPA
1	Sai	Bangalore	Programming in C	1	9.5
2	Sri	Mysore	Programming in C	1	6.0
3	Kumar	Bangalore	Data Science	4	8.0
4	Δkehav	Rangalore	Data Science	4	9 N

т	/ monay	Darigatore	Β αια Οσιστίου	т	5.0
5	Rajesh	Bangalore	Data Science	4	9.0

List the courses under each semester where none of the students scored less than 5.

```
Select Distinct semester, course from student2
where course not in(
select course from student2
where cgpa<5
);
```

Affected_rows: 3

semester	course
1	Programming in C
4	Data Science
4	Big Data

Question #14 Executable SQL Please Consider the below schemas/tables 3 Marks

details

field	Туре
accomplishments	varchar(50)
address_city	varchar(20)
email_ID	varchar(20)
school_id	int

address_city	email_ID	school_id	accomplishments
Banglore	jsingh@geeks.com	1020	ACM ICPC selected
Hvderabad	nraveen@deeks.com	1030	Geek of the month

,	p. 3. 22 g 22				
Delhi	rithvik@geeks.com	1012	IOI finalist		
Chennai	om@geeks.com	1111	Geek of the year		
Banglore	suraj@geeks.com	1008	IMO finalist		
marks					
field	Туре				
s_id	ir	int			
school_id	ir	int			
score	int				
status	varchar(20)				
school_id	s_id	score	status		
1004	1	23	fail		
1008	6	95	pass		
1012	2	97	pass		
1016	7	67	pass		
1020	3	100	pass		
student					
field	Туре	Туре			
s_id	int	int			
s_name	varchar(20)				
s_id	s_name	s_name			
1	Jack				
2	Rithvik	Rithvik			
3	Jaspreet				
4	Praveen	Praveen			
5	Bisa				

Display the names of all the students and their corresponding email IDs. Fetch the names of those students as well who do not have an email address provided.

select s.s_id,s.s_name,m.school_id,d.email_id
from student s
left join
marks m
on s.s_id=m.s_id
left join
details d
on m.school_id=d.school_id

Affected_rows: 6

s_id	s_name	school_id	email_id
1	Jack	1004	
2	Rithvik	1012	rithvik@geeks.com
3	Jaspreet	1020	jsingh@geeks.com
4	Praveen	1030	praveen@geeks.com
5	Bisa	1040	
6	Suraj	1008	suraj@geeks.com