SQL Project

Student Marks Analysis

We have the following table

Class9: This table contains field is
name,id,maths_marks,History_marks,Science_marks,Social_science_marks, marathi_marks,english_marks

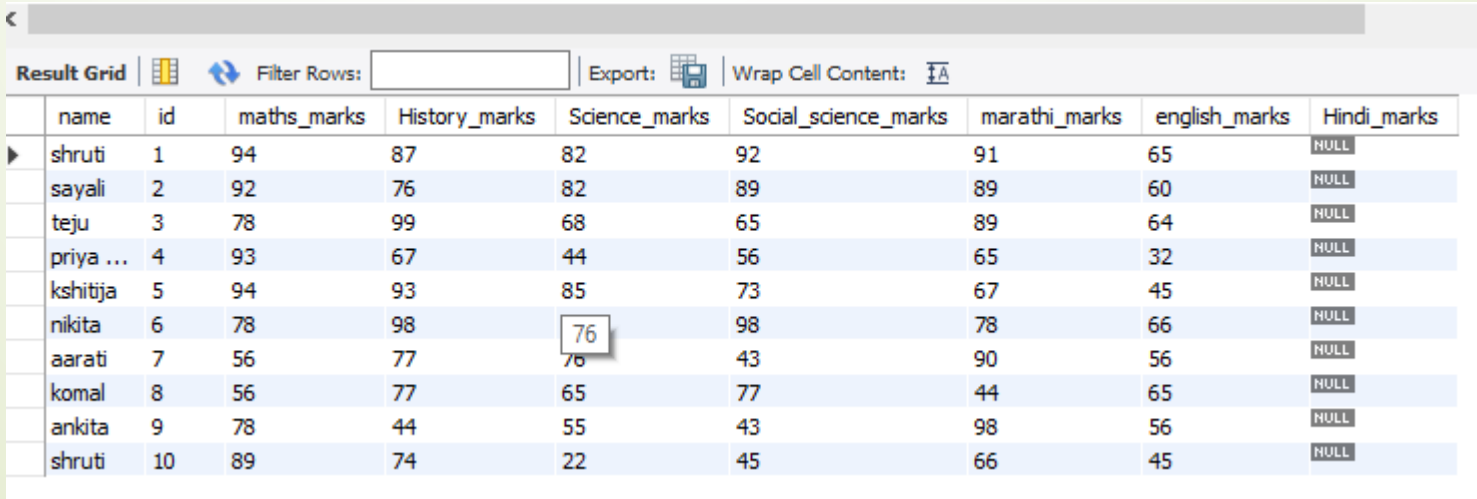
Class10: This table contains field is
name,id,maths_mark,History_mark,Science_mark,Social_science_mark,ma rathi_mark,english_mark,Hindi_mark,sirname

create table class9(name varchar(12),id int,maths_marks int,History_marks int,Science_marks int,Social_science_marks int,marathi_marks int,english_marks int,Hindi_marks int)

insert into class9(name,id,maths_marks,History_marks,Science_marks,Social_science_marks,marathi_marks,english_marks)values("shruti",1,94,87,82,92,91,65),("sayali",2,92,76,82,89,89,60),("teju",3,78,99,68,65,89,64),("priyanka",4,93,67,44,56,65,32),('kshitija',5,94,93,85,73,67,45),("nikita",6,78,98,76,98,78,66),("aarati",7,56,77,76,43,90,56),("komal",8,56,77,65,77,44,65),("ankita",9,78,44,55,43,98,56),("shruti",10,89,74,22,45,66,45)

List of values

select * from class9



Result Grid | Filter Rows: | Export: | Wrap Cell Content:

name	id	maths_marks	History_marks	Science_marks	Social_science_marks	marathi_marks	english_marks	Hindi_marks
shruti	1	94	87	82	92	91	65	NULL
sayali	2	92	76	82	89	89	60	NULL
teju	3	78	99	68	65	89	64	NULL
priya ...	4	93	67	44	56	65	32	NULL
kshitija	5	94	93	85	73	67	45	NULL
nikita	6	78	98	76	98	78	66	NULL
aarati	7	56	77	76	43	90	56	NULL
komal	8	56	77	65	77	44	65	NULL
ankita	9	78	44	55	43	98	56	NULL
shruti	10	89	74	22	45	66	45	NULL

Update name

update class9 set name="shruti_p" where id=10
Select * from class9

sult Grid | Filter Rows: | Export: | Wrap Cell Content:

name	id	maths_mark	History_mark	Science_mark	Social_science_mark	marathi_mark	english_mark	Hindi_mark	sirname
shruti	1	75	89	80	95	97	78	66	pavaskar
sayali	2	67	81	82	90	82	80	45	mane
teju	3	85	91	68	55	89	64	56	kadam
priya nka	4	56	67	44	56	65	32	56	kale
kshitija	5	83	93	85	73	67	45	56	patakar
nikita	6	67	98	76	98	78	66	65	bobade
aarati	7	56	77	76	43	90	56	98	pavar
komal	8	53	77	65	77	44	65	65	yadav
ankita	9	70	44	55	43	98	56	56	salunkhe
shruti_p	35	89	74	22	45	66	45	45	patil

create table class10(name varchar(12),id int,maths_mark int,History_mark int,Science_mark int,Social_science_mark int,marathi_mark int,english_mark int,Hindi_mark int)

Add column sirname

alter table class10 add column sirname varchar(12)

```
insert into
class10(name,id,maths_mark,History_mark,Science_mark,Social_scien
ce_mark,marathi_mark,english_mark,Hindi_mark,sirname)values("shruti
",1,75,89,80,95,97,78,66,"pavaskar"),("sayali",2,67,81,82,90,82,80,45,"man
e"),("teju",3,85,91,68,55,89,64,56,'kadam'),("priyanka",4,56,67,44,56,65,3
2,56,"kale"),('kshitija',5,83,93,85,73,67,45,56,"patakar"),("nikita",6,67,98,76
,98,78,66,65,"bobade"),("aarati",7,56,77,76,43,90,56,98,"pavar"),("komal
",8,53,77,65,77,44,65,65,"yadav"),("ankita",9,70,44,55,43,98,56,56,"salunk
he"),("shruti_p",35,89,74,22,45,66,45,66,"patil")
```

Retrive all data

```
select * from class10
```

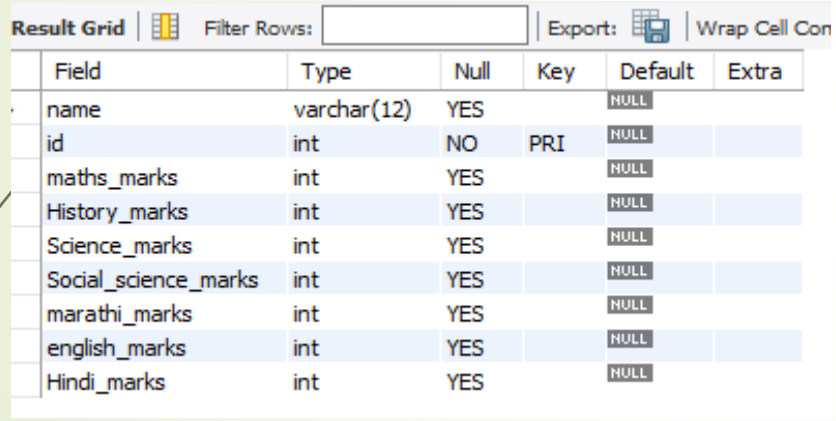
sult Grid | Filter Rows: | Export: | Wrap Cell Content:

name	id	maths_mark	History_mark	Science_mark	Social_science_mark	marathi_mark	english_mark	Hindi_mark	sirname
shruti	1	75	89	80	95	97	78	66	pavaskar
sayali	2	67	81	82	90	82	80	45	mane
teju	3	85	91	68	55	89	64	56	kadam
priya nka	4	56	67	44	56	65	32	56	kale
kshitija	5	83	93	85	73	67	45	56	patakar
nikita	6	67	98	76	98	78	66	65	bobade
aarati	7	56	77	76	43	90	56	98	pavar
komal	8	53	77	65	77	44	65	65	yadav
ankita	9	70	44	55	43	98	56	56	salunkhe
shruti_p	35	89	74	22	45	66	45	45	patil

Add constraint

alter table class9 add constraint primary key pk1(id)

alter table class10 add constraint primary key pk2(id)
desc class9



Result Grid | Filter Rows: | Export: | Wrap Cell Con

Field	Type	Null	Key	Default	Extra
name	varchar(12)	YES		NULL	
id	int	NO	PRI	NULL	
maths_marks	int	YES		NULL	
History_marks	int	YES		NULL	
Science_marks	int	YES		NULL	
Social_science_marks	int	YES		NULL	
marathi_marks	int	YES		NULL	
english_marks	int	YES		NULL	
Hindi_marks	int	YES		NULL	

Find maths and English marks in class 10 and 9

select maths_marks,english_marks from class9

maths_marks	english_marks
94	65
92	60
78	64
93	32
94	45
78	66
56	56
56	65
78	56
89	45

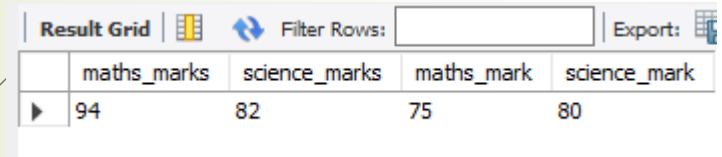
select maths_mark,english_mark from class10

Result Grid | Filter Rov

maths_mark	english_mark
75	78
67	80
85	64
56	32
83	45
67	66
56	56
53	65
70	56
89	45

Select maths,science marks student shruti 10 nth and 9 nth class

```
select
class9.maths_marks,class9.science_marks,class10.maths_mark,class10.sci
ence_mark from class9 join class10 on class9.id=class10.id where
class9.name="shruti"
```


Result Grid | Filter Rows: | Export:

maths_marks	science_marks	maths_mark	science_mark
94	82	75	80

Find students all marks from 10 th and 9 th

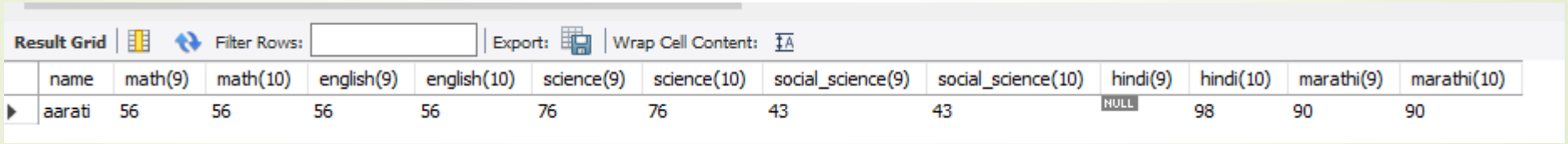
```
select class9.name,class9.maths_marks as "math(9)",class10.maths_mark as
"math(10)",class9.english_marks as "english(9)",class10.english_mark as
"english(10)",class9.science_marks as "science(9)",class10.science_mark as
"science(10)",.social_science_marks as
"social_sclass9cience(9)",class10.social_science_mark as
"social_science(10)",class9.hindi_marks as "hindi(9)",class10.hindi_mark as
"hindi(10)",class9.marathi_marks as "marathi(9)",class10.marathi_mark as
"marathi(10)" from class9 join class10 on class9.id=class10.id
```

sult Grid | Filter Rows: | Export: | Wrap Cell Content:

math(9)	math(10)	english(9)	english(10)	science(9)	science(10)	social_science(9)	social_science(10)	hindi(9)	hindi(10)	marathi(9)	marathi(10)
94	75	65	78	82	80	92	95	NULL	66	91	97
92	67	60	80	82	82	89	90	NULL	45	89	82
78	85	64	64	68	68	65	55	NULL	56	89	89
93	56	32	32	44	44	56	56	NULL	56	65	65
94	83	45	45	85	85	73	73	NULL	56	67	67
78	67	66	66	76	76	98	98	NULL	65	78	78
56	56	56	56	76	76	43	43	NULL	98	90	90
56	53	65	65	65	65	77	77	NULL	65	44	44
78	70	56	56	55	55	43	43	NULL	56	98	98

Find aarati's all marks from 10 th and 9 th

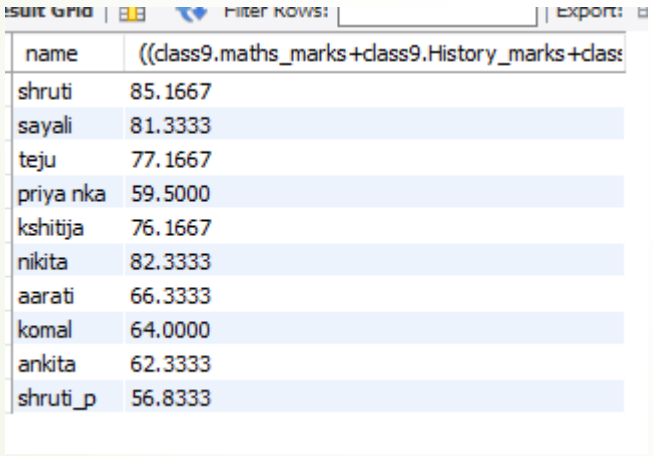
```
select class9.name,class9.maths_marks as "math(9)",class10.maths_mark
as "math(10)",class9.english_marks as "english(9)",class10.english_mark as
"english(10)",class9.science_marks as "science(9)",class10.science_mark
as "science(10)",class9.social_science_marks as
"social_science(9)",class10.social_science_mark as
"social_science(10)",class9.hindi_marks as "hindi(9)",class10.hindi_mark as
"hindi(10)",class9.marathi_marks as "marathi(9)",class10.marathi_mark as
"marathi(10)" from class9 join class10 on class9.id=class10.id where
class9.name="aarati"
```



name	math(9)	math(10)	english(9)	english(10)	science(9)	science(10)	social_science(9)	social_science(10)	hindi(9)	hindi(10)	marathi(9)	marathi(10)
aarati	56	56	56	56	76	76	43	43	NULL	98	90	90

Find student percentage in class 9

```
select
class9.name,((class9.maths_marks+class9.History_marks+class9.Science_m
arks+class9.Social_science_marks+class9.marathi_marks+class9.english_ma
rks)/600*100) from class9
```



name	((class9.maths_marks+class9.History_marks+class
shruti	85.1667
sayali	81.3333
teju	77.1667
priya nka	59.5000
kshitija	76.1667
nikita	82.3333
aarati	66.3333
komal	64.0000
ankita	62.3333
shruti_p	56.8333

Find student percentage of class 10

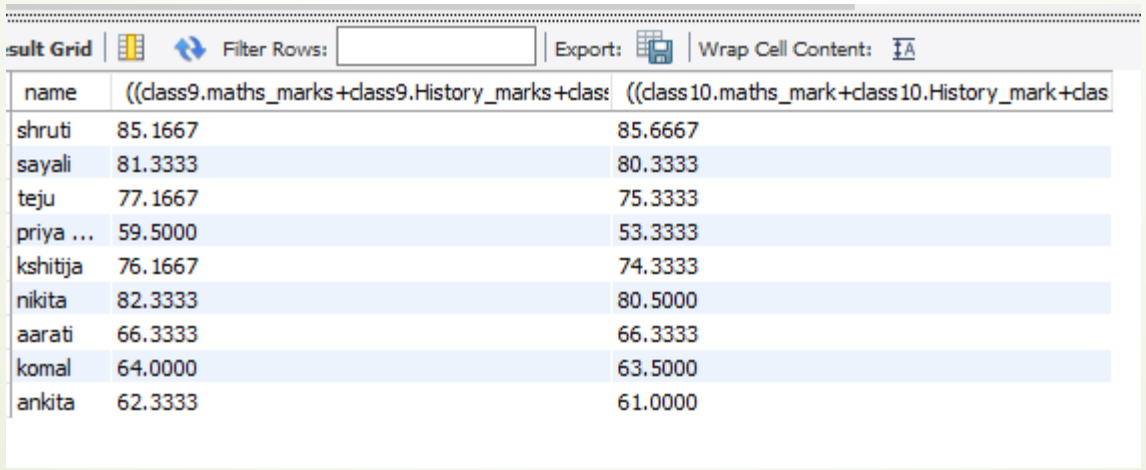
```
select
class10.name,((class10.maths_mark+class10.History_mark+class10.Science_m
ark+class10.Social_science_mark+class10.marathi_mark+class10.english_mark
)/600*100) from class10
```

esult Grid | Filter Rows:

name	((class10.maths_mark+class10.History_marl
shruti	85.6667
sayali	80.3333
teju	75.3333
priya nka	53.3333
kshitija	74.3333
nikita	80.5000
aarati	66.3333
komal	63.5000
ankita	61.0000
shruti_p	56.8333

Find student percentage of students of 10 th and9 th

```
select
class9.name,((class9.maths_marks+class9.History_marks+class9.S
cience_marks+class9.Social_science_marks+class9.marathi_mar
ks+class9.english_marks)/600*100),((class10.maths_mark+class10.
History_mark+class10.Science_mark+class10.Social_science_mar
k+class10.marathi_mark+class10.english_mark)/600*100) from
class10join class9 on class10.id=class9.id
```



sult Grid | Filter Rows: | Export: | Wrap Cell Content:

name	((class9.maths_marks+class9.History_marks+class	((class10.maths_mark+class10.History_mark+clas
shruti	85.1667	85.6667
sayali	81.3333	80.3333
teju	77.1667	75.3333
priya ...	59.5000	53.3333
kshitija	76.1667	74.3333
nikita	82.3333	80.5000
aarati	66.3333	66.3333
komal	64.0000	63.5000
ankita	62.3333	61.0000

Find student percentage diff between 10 th and 9 th students

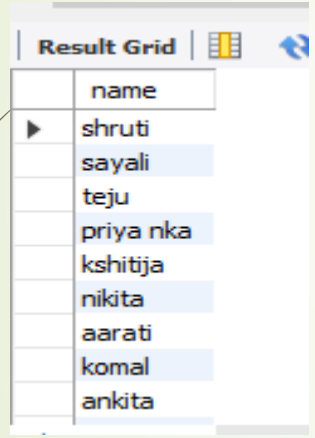
```
select
class9.name,((class9.maths_marks+class9.History_marks+class9.Scienc
e_marks+class9.Social_science_marks+class9.marathi_marks+class9.e
nglish_marks)/600*100),((class10.maths_mark+class10.History_mark+cl
ass10.Science_mark+class10.Social_science_mark+class10.marathi_m
ark+class10.english_mark)/600*100),(((class9.maths_marks+class9.Histo
ry_marks+class9.Science_marks+class9.Social_science_marks+class9.
marathi_marks+class9.english_marks)/600*100)-
((class10.maths_mark+class10.History_mark+class10.Science_mark+cl
ass10.Social_science_mark+class10.marathi_mark+class10.english_ma
rk))/600*100)from class10join class9 on class10.id=class9.id
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content:

name	((class9.maths_marks+class9.History_marks+class	((class10.maths_mark+class10.History_mark+clas	(((class9.maths_marks+class9.History_marks+clas
shruti	85.1667	85.6667	-0.5000
sayali	81.3333	80.3333	1.0000
teju	77.1667	75.3333	1.8333
priya ...	59.5000	53.3333	6.1667
kshitija	76.1667	74.3333	1.8333
nikita	82.3333	80.5000	1.8333
aarati	66.3333	66.3333	0.0000
komal	64.0000	63.5000	0.5000
ankita	62.3333	61.0000	1.3333

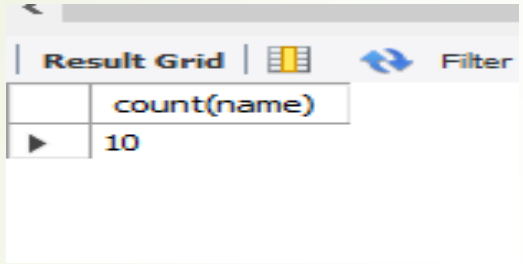
Find students who got less than 35

select name from class10 where(maths_mark)<35 or (History_mark)<35 or (Science_mark)<35 or (Social_science_mark)<35 or (marathi_mark)<35 or(english_mark)<35 or(hindi_mark)



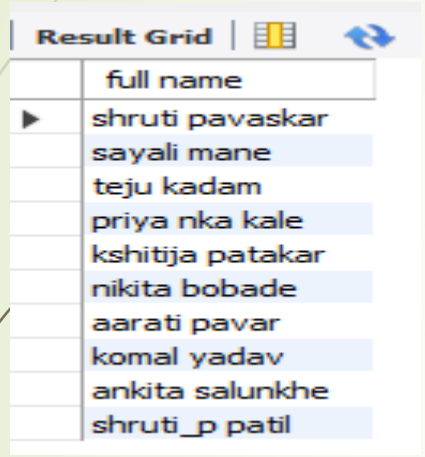
Find no of student

select count(name) from class10



Find student full name

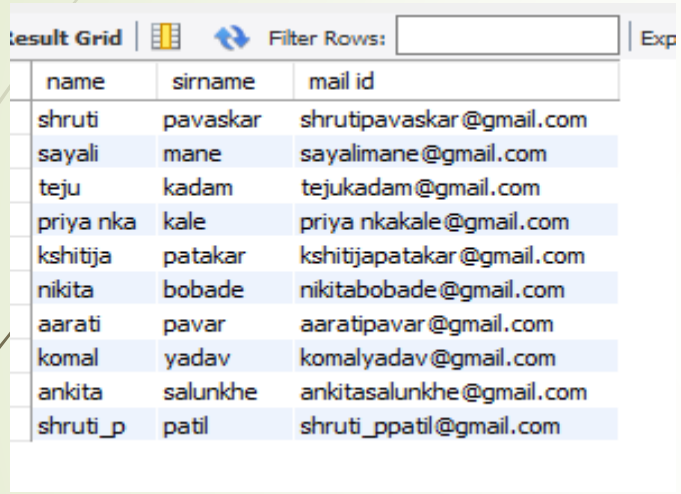
select concat(name," ",sirname) as "full name" from class10


Result Grid

	full name
▶	shruti pavaskar
	sayali mane
	teju kadam
	priya nka kale
	kshitija patakar
	nikita bobade
	aarati pavar
	komal yadav
	ankita salunkhe
	shruti_p patil

Create students email id using name and sirname

```
select
name,sirname,concat(name,"",sirname,"@gmail.com") as
"mail id" from class10
```

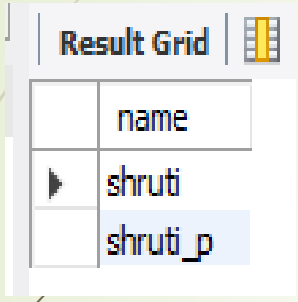


Result Grid | Filter Rows: | Exp

name	sirname	mail id
shruti	pavaskar	shrutipavaskar@gmail.com
sayali	mane	sayalimane@gmail.com
teju	kadam	tejukadam@gmail.com
priya nka	kale	priya nkakale@gmail.com
kshitija	patakar	kshitijapatakar@gmail.com
nikita	bobade	nikitabobade@gmail.com
aarati	pavar	aaratipavar@gmail.com
komal	yadav	komalyadav@gmail.com
ankita	salunkhe	ankitasalunkhe@gmail.com
shruti_p	patil	shruti_ppatil@gmail.com

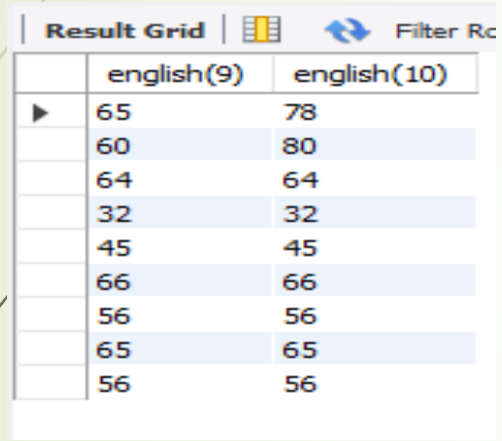
Find student name whose substring hru

select name from class10 where name like "_hru%"



Find student English marks from both standard

select class9.english_marks as "english(9)",class10.english_mark as "english(10)" from class10 join class9 on class10.id=class9.id



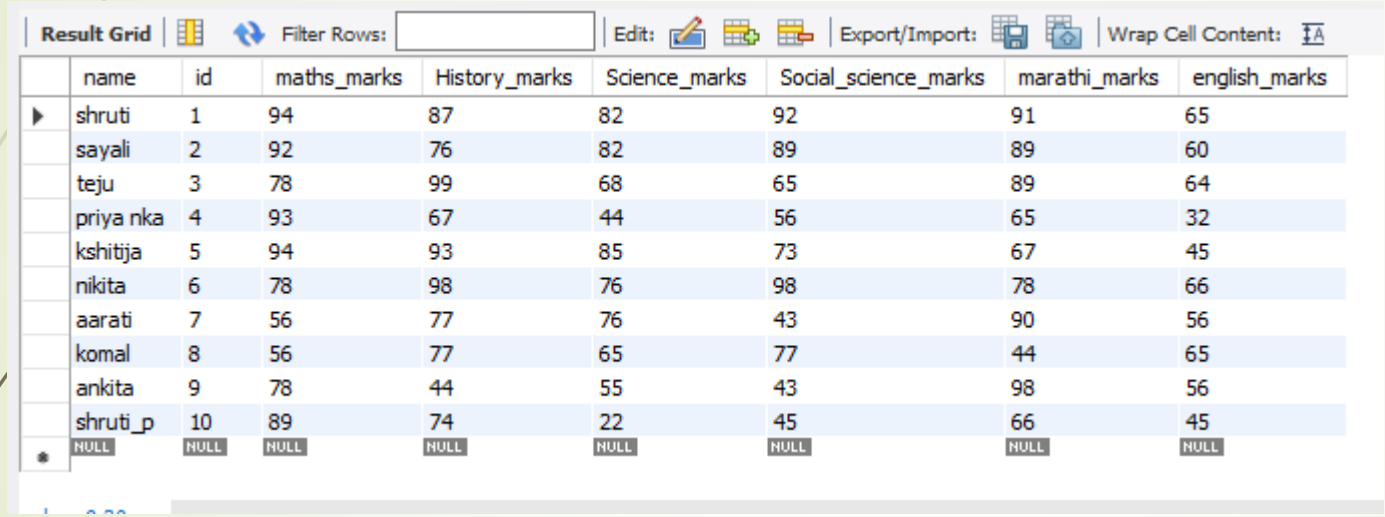
Result Grid | Filter Rc

	english(9)	english(10)
▶	65	78
	60	80
	64	64
	32	32
	45	45
	66	66
	56	56
	65	65
	56	56

Delete column hindi

alter table class9 drop column hindi_marks

select * from class9

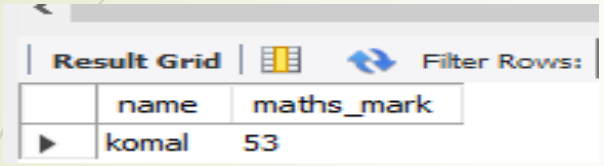


Result Grid | Filter Rows: | Edit: | Export/Import: | Wrap Cell Content:

name	id	maths_marks	History_marks	Science_marks	Social_science_marks	marathi_marks	english_marks
shruti	1	94	87	82	92	91	65
sayali	2	92	76	82	89	89	60
teju	3	78	99	68	65	89	64
priya nka	4	93	67	44	56	65	32
kshitija	5	94	93	85	73	67	45
nikita	6	78	98	76	98	78	66
aarati	7	56	77	76	43	90	56
komal	8	56	77	65	77	44	65
ankita	9	78	44	55	43	98	56
shruti_p	10	89	74	22	45	66	45
NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL

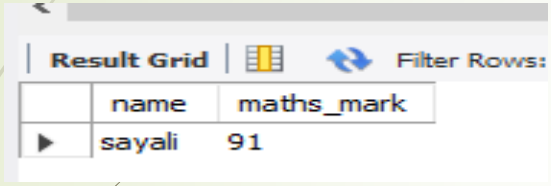
Find student who has less mark in maths in 10 th

select class10.name,class10.maths_mark from class10 order by maths_mark asc limit 1



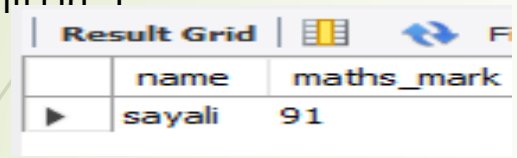
Find student name whose got higher marks in 10

select class10.name,class10.maths_mark from class10 order by maths_mark desc limit 1



Find student name whose got higher marks in 9

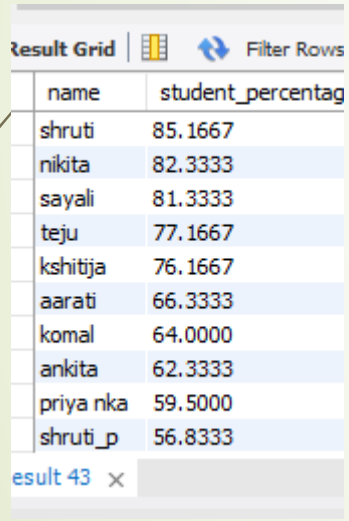
select class9.name,class9.maths_marks from class9 order by maths_marks asc limit 1select class9.name,class9.maths_marks from class9 order by maths_marks desc limit 1



Result Grid

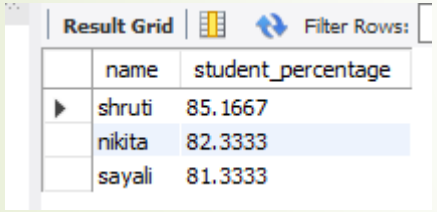
	name	maths_mark
▶	sayali	91

- **Find student percentage desc order in 9 th std**
- select class9.name,((class9.maths_marks+class9.History_marks+class9.Science_marks+class9.Social_science_marks+class9.marathi_marks+class9.english_marks)/600*100) as "student_percentage" from class9 order by student_percentage desc



- **Find student name whose got higher marks in first 3 student in 9 th std**

- select class9.name,((class9.maths_marks+class9.History_marks+class9.Science_marks+class9.Social_science_marks+class9.marathi_marks+class9.english_marks)/600*100) as "student_percentage" from class9 order by student_percentage desc limit 3



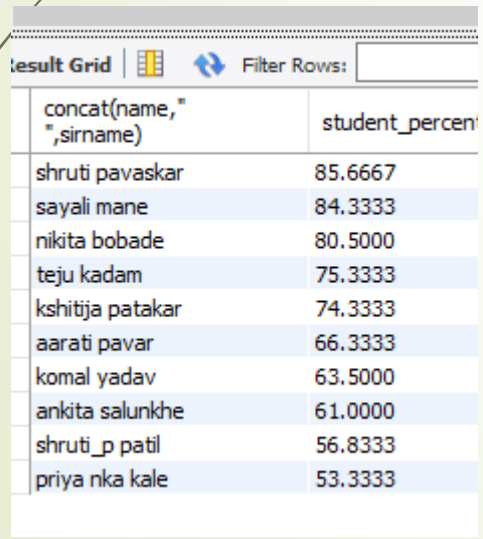
Find student name whose got higher marks in 10 std

```
select concat(name,"
",sirname),((class10.maths_mark+class10.History_mark+class10.Science_mark+class10.So
cial_science_mark+class10.marathi_mark+class10.english_mark)/600*100) as
"student_percentage" from class10 order by student_percentage desc limit 3
```

concat(name," ",sirname)	student_percentage
shruti pavaskar	85.6667
sayali mane	84.3333
nikita bobade	80.5000

Find student name whose got higher marks in 10 display full name

```
select concat(name,"
",sirname),((class10.maths_mark+class10.History_mark+class10.Science_mark
+class10.Social_science_mark+class10.marathi_mark+class10.english_mark)/
600*100) as "student_percentage" from class10 order by
student_percentage desc
```

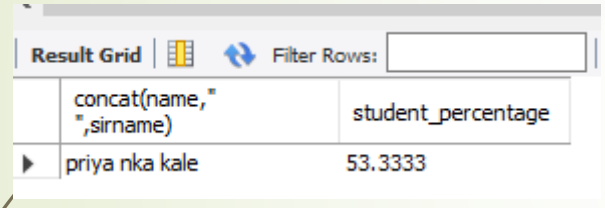


Result Grid | Filter Rows:

concat(name," ",sirname)	student_percen
shruti pavaskar	85.6667
sayali mane	84.3333
nikita bobade	80.5000
teju kadam	75.3333
kshitija patakar	74.3333
aarati pavar	66.3333
komal yadav	63.5000
ankita salunkhe	61.0000
shruti_p patil	56.8333
priya nka kale	53.3333

Find student name whose got less marks in 10

```
select concat(name," ",sirname),((class10.maths_mark+class10.History_mark+class10.Science_mark+class10.Social_science_mark+class10.marathi_mark+class10.english_mark)/600*100) as "student_percentage" from class10 order by student_percentage asc limit 1
```



Result Grid | Filter Rows:

	concat(name," ",sirname)	student_percentage
▶	priya nka kale	53.3333

Find student name whose got less marks in 9 th

```
select
class9.name,((class9.maths_marks+class9.History_marks+class9.Science_marks+class9.
Social_science_marks+class9.marathi_marks+class9.english_marks)/600*100) as
"student_percentage" from class9 order by student_percentage asc limit 1
```