

Introduction: School student details

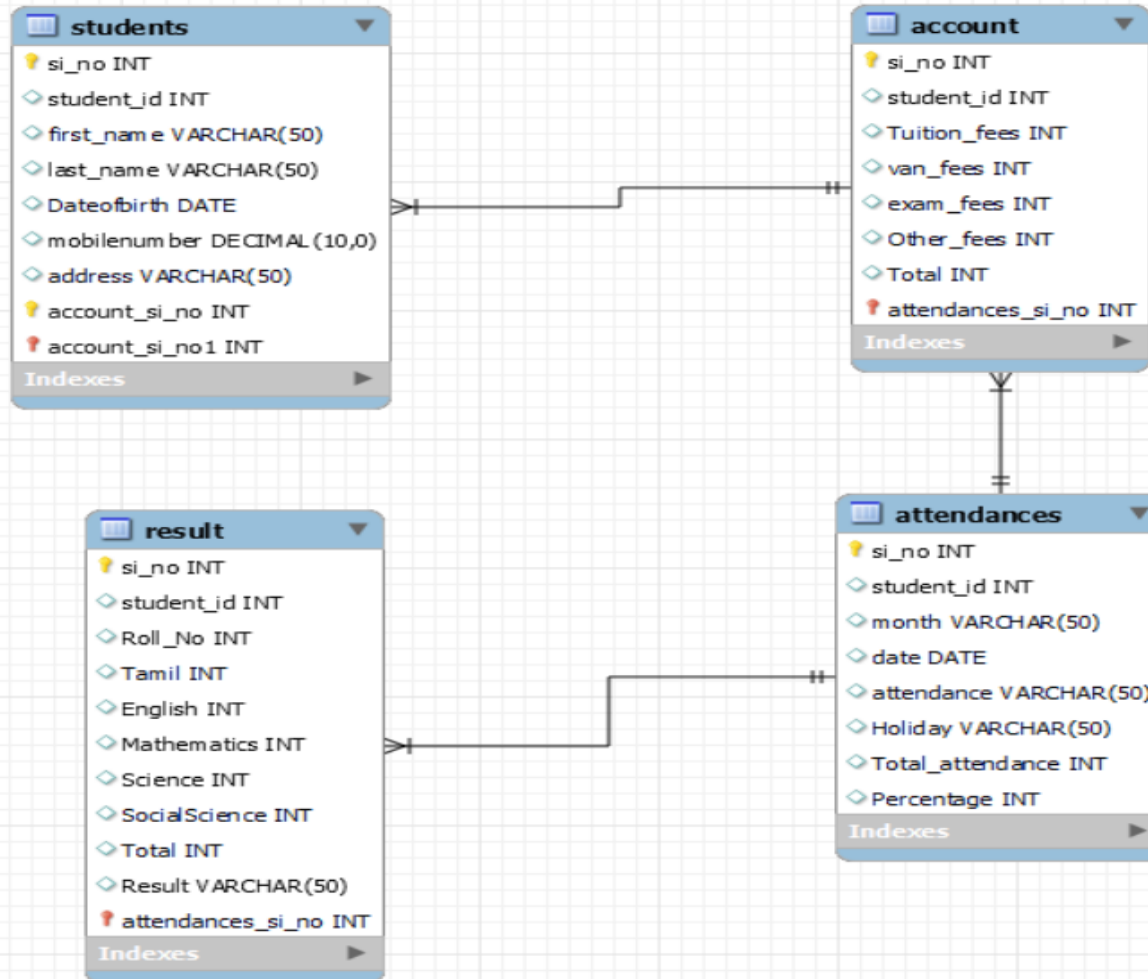
A school student Details case study typically explores the organizational structure, administrative processes, and strategic decisions within an educational institution. It often delves into how schools manage resources, personnel, student welfare, and academic programs to achieve their goals effectively. Case studies in school management can highlight challenges faced, innovative solutions implemented, and outcomes achieved, offering insights into best practices and lessons learned for improving educational administration and student outcomes.

Introduction to school management

In the modern education, effective management of school operations is paramount to ensuring smooth functioning and optimal student outcomes. This case study delves into the application in managing diverse data sets within a school environment. SQL, a powerful tool for database management, plays a crucial role in organizing, retrieving, and analyzing data essential for decision-making across various administrative functions. This study examines how SQL is utilized to streamline processes such as student enrollment, attendance tracking, academic performance monitoring, and resource allocation and database management systems, school administrators can efficiently handle large volumes of data, maintain data integrity, and generate insightful reports to support strategic decision-making.



Throughout this case study, we will explore real-world to extract actionable insights from student records, faculty schedules, financial transactions students marks student all details to handle many records in sql.



```
create table student(si_no int auto_increment not null
student_id int,
first_name varchar(50),
last_name varchar(50),
Dateofbirth date,
mobilenumber numeric,
address varchar(50),
primary key (si_no)
);

select*from student;

insert into student (student_id,First_name,last_name,Dateofbirth,mobilenumber,address)values (602050,'Ajay','Dev','2000-06-09',9600238974,'Neyattankari');

insert into student (student_id,First_name,last_name,Dateofbirth,mobilenumber,address)values (602051,'Akash','Britto','2001-08-23',8523697561,'Ngo,Colony');

insert into student (student_id,First_name,last_name,Dateofbirth,mobilenumber,address)values (602052,'Aromal','Babu','2000-11-05',9517534681,'Parassala');

insert into student (student_id,First_name,last_name,Dateofbirth,mobilenumber,address)values (602053,'Anusha','Bhanu','2001-07-13',8512369751,'Ramanputhur');

insert into student (student_id,First_name,last_name,Dateofbirth,mobilenumber,address)values (602054,'Athira','Nair','2001-02-28',7539524890,'Nesamony Nagar');
```

```
Insert into student (student_id,First_name,last_name,Dateofbirth,mobilenumber,address)values (602055,'Benny','Alex','2000-09-09',9275386428,'Watertank Road Ngl');
insert into student (student_id,First_name,last_name,Dateofbirth,mobilenumber,address)values (602056,'Beno','Sherbin','2000-01-24',8376932876,'WCC Road Ngl');
insert into student (student_id,First_name,last_name,Dateofbirth,mobilenumber,address)values (602057,'Benisha','Rose','2000-03-07',7539518614,'sasthankarai');
insert into student (student_id,First_name,last_name,Dateofbirth,mobilenumber,address)values (602058,'Gino','Sterbin','2001-11-27',9517536497,'Colachel');
insert into student (student_id,First_name,last_name,Dateofbirth,mobilenumber,address)values (602059,'Jeberson','Samuel','2000-08-17',8631597561,'Vinoth Nagar ');
insert into student (student_id,First_name,last_name,Dateofbirth,mobilenumber,address)values (602060,'Micheal','Raj','2000-04-06',7531596314,'Thiruvalluvar street');
insert into student (student_id,First_name,last_name,Dateofbirth,mobilenumber,address)values (602061,'Nithish','Kumar','2001-09-16',8296363741,'Mondaymarket ');
select*from student;
```

```
create table Account(si_no int auto_increment not null,student_id int
```

```
Tuition_fees int,
```

```
van_fees int,
```

```
exam_fees int,
```

```
Other_fees
```

```
int,primary key(si_no));
```

```
select*from Account;
```

```
insertintoAccount(student_id,Tuition_fees,van_fees,exam_fees,other_fees)values(602050,30000,5000,800,2000);
```

```
insert into Account (student_id,Tuition_fees,exam_fees,other_fees)values(602051,30000,800,2000);
```

```
insert into Account (student_id,Tuition_fees,van_fees,exam_fees,other_fees)values(602052,30000,4500,800,2000);
```

```
insertintoAccount(student_id,Tuition_fees,van_fees,exam_fees,other_fees)values(602053,30000,6000,800,2000);
```

```
insert into Account (student_id,Tuition_fees,van_fees,exam_fees,other_fees)values(602054,30000,2500,800,2000);
```

```
insert into Account (student_id,Tuition_fees,exam_fees,other_fees)values(602055,30000,800,2000);
```

```
insert into Account (student_id,Tuition_fees,exam_fees,other_fees)values(602056,30000,800,2000);
```

```
insert into Account (student_id,Tuition_fees,van_fees,exam_fees,other_fees)values(602057,30000,1700,800,2000);
```

```
insert into Account (student_id,Tuition_fees,exam_fees,other_fees)values(602058,30000,800,2000);
```

```
insert into Account (student_id,Tuition_fees,van_fees,exam_fees,other_fees)values(602059,30000,2700,800,2000);
```

```
Insert into Account (student_id,Tuition_fees,exam_fees,other_fees)values(602060,30000,800,2000);
```

```
insert into Account (student_id,Tuition_fees,van_fees,exam_fees,other_fees) values(602061,30000,1850,800,2000);
```

```
create table attendances(si_no int auto_increment not null,  
student_id int,month varchar(50),  
date date,attendance varchar(50),primary key (si_no)  
);  
select*from attendances;  
insert into attendances (student_id,month,date,attendance)values(602050,'January','2024-01-03','present');  
insert into attendances (student_id,month,date,attendance)values(602051,'January','2024-01-03','present');  
insert into attendances (student_id,month,date,attendance)values(602052,'January','2024-01-03','Absent');  
insert into attendances (student_id,month,date,attendance)values(602053,'January','2024-01-03','present');  
insert into attendances (student_id,month,date,attendance)values(602054,'January','2024-01-03','Absent');  
insert into attendances (student_id,month,date,attendance)values(602055,'January','2024-01-03','present');  
insert into attendances (student_id,month,date,attendance)values(602056,'January','2024-01-03','present');  
insert into attendances (student_id,month,date,attendance)values(602057,'January','2024-01-03','present');  
insert into attendances (student_id,month,date,attendance)values(602058,'January','2024-01-03','Absent');  
insert into attendances (student_id,month,date,attendance)values(602059,'January','2024-01-03','present');  
insert into attendances (student_id,month,date,attendance)values(602060,'January','2024-01-03','Absent');  
insert into attendances (student_id,month,date,attendance)values(602061,'January','2024-01-03','present');  
Etc.....
```

```
create table result(si_no int auto_increment not null,  
student_id int,  
Roll_No int,  
Tamil int,  
English int,  
Mathematics int,  
Science int,  
SocialScience int,  
Total int,  
Result varchar(50),  
primary key (si_no)  
);  
select*from result;
```

```
Insertintoreult(student_id,Roll_No,Tamil,English,Mathematics,Science,SocialScience>Total,Result)values(602050,18283201,9  
3,97,100,98,90,478,'Pass');
```

```
insertintoresul(student_id,Roll_No,Tamil,English,Mathematics,Science,SocialScience>Total,Result)values(602051,18283202,72  
,87,68,80,67,374,'Pass');
```

```
insertintoreult(student_id,Roll_No,Tamil,English,Mathematics,Science,SocialScience>Total,Result)values(602052,18283203,3  
4,58,47,38,62,239,'Fail');
```

```
insertintoreult(student_id,Roll_No,Tamil,English,Mathematics,Science,SocialScience>Total,Result)values(602053,18283204,8  
4,96,77,88,92,437,'Pass');
```

```
insertintoreult(student_id,Roll_No,Tamil,English,Mathematics,Science,SocialScience>Total,Result)values(602054,18283205,9  
0,96,97,90,92,465,'Pass');
```

Etc.....

Case study questions & Answers;

1.How to Retrieves all columns and rows from the student tables ?

```
select*from student;
```

Result Grid							
Filter Rows:							
Edit: Export/Import:							
	si_no	student_id	first_name	last_name	Dateofbirth	mobilenumber	address
▶	1	602050	Ajay	Dev	2000-06-09	9600238974	Neyattankari
	2	602051	Akash	Britto	2001-08-23	8523697561	Ngo,Colony
	3	602052	Aromal	Babu	2000-11-05	9517534681	Parassala
	4	602053	Anusha	Bhanu	2001-07-13	8512369751	Ramanputhur
	5	602054	Athira	Nair	2001-02-28	7539524890	Nesamony Nagar
	6	602055	Benny	Alex	2000-09-09	9275386428	Watertank Road Ngl
	7	602056	Beno	Sherbin	2000-01-24	8376932876	WCC Road Ngl
	8	602057	Benisha	Rose	2000-03-07	7539518614	sasthankarai
	9	602058	Gino	Sterbin	2001-11-27	9517536497	Colachel
	10	602059	Jeberson	Samuel	2000-08-17	8631597561	Vinoth Nagar
	11	602060	Micheal	Raj	2000-04-06	7531596314	Thiruvalluvar street 1
	12	602061	Nithish	Kumar	2001-09-16	8296363741	Mondaymarket

2. Return a list of student with the following first names:[Ajay,Beno,Athira] from student Table ?

```
select*from student where first_name in ('Ajay','Beno','Athira');
```

[illegible]

3. Return a list of all student except those with the last names:[Dev,Alex,Babu] from Student Table ?

```
select*from student where last_name not in ('Dev','Alex','Babu');
```

[illegible]

4. How to concat First names and last names in student table ?

```
select concat(first_name," ",last_name) from student;
```

Result Grid		Filter Rows:
	concat(first_name," ",last_name)	
▶	Ajay Dev	
	Akash Britto	
	Aromal Babu	
	Anusha Bhanu	
	Athira Nair	
	Benny Alex	
	Beno Sherbin	
	Benisha Rose	
	Gino Sterbin	
	Jeberson Samuel	
	Micheal Raj	
	Nithish Kumar	








5 Return a list of student with the following first names Aromal and last name Babu from student table ?

```
select *from student where first_name='Aromal' and last_name='Babu';
```

Result Grid		Filter Rows:		Edit:		Export/Import:	
	si_no	student_id	first_name	last_name	Dateofbirth	mobilenumber	address
▶	3	602052	Aromal	Babu	2000-11-05	9517534681	Parassala
	NULL	NULL	NULL	NULL	NULL	NULL	NULL


6. How to get student table in assending order ?

select*from student order by first_name asc ;

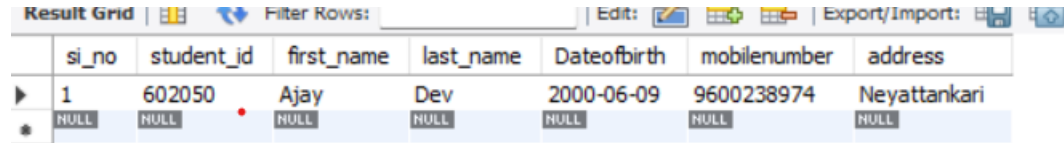
Result Grid   Filter Rows: <input type="text"/> Edit:    Export/Import:   Wr							
si_no	student_id	first_name	last_name	Dateofbirth	mobilenumber	address	
1	602050	Ajay	Dev	2000-06-09	9600238974	Neyattankari	
2	602051	Akash	Britto	2001-08-23	8523697561	Ngo,Colony	
4	602053	Anusha	Bhanu	2001-07-13	8512369751	Ramanputhur	
3	602052	Aromal	Babu	2000-11-05	9517534681	Parassala	
5	602054	Athira	Nair	2001-02-28	7539524890	Nesamony Nagar	
8	602057	Benisha	Rose	2000-03-07	7539518614	sasthankarai	
6	602055	Benny	Alex	2000-09-09	9275386428	Watertank Road Ngl	
7	602056	Beno	Sherbin	2000-01-24	8376932876	WCC Road Ngl	

7. How to get student table in Descending order ?

select*from student order by first_name desc ;

Result Grid   Filter Rows: <input type="text"/> Edit:    Export/Import:   Wr							
si_no	student_id	first_name	last_name	Dateofbirth	mobilenumber	address	
12	602061	Nithish	Kumar	2001-09-16	8296363741	Mondaymarket	
11	602060	Micheal	Raj	2000-04-06	7531596314	Thiruvalluvar street 1	
10	602059	Jeberson	Samuel	2000-08-17	8631597561	Vinoth Nagar	
9	602058	Gino	Sterbin	2001-11-27	9517536497	Colachel	
7	602056	Beno	Sherbin	2000-01-24	8376932876	WCC Road Ngl	
6	602055	Benny	Alex	2000-09-09	9275386428	Watertank Road Ngl	
8	602057	Benisha	Rose	2000-03-07	7539518614	sasthankarai	
5	602054	Athira	Nair	2001-02-28	7539524890	Nesamony Nagar	
3	602052	Aromal	Babu	2000-11-05	9517534681	Parassala	
4	602053	Anusha	Bhanu	2001-07-13	8512369751	Ramanputhur	
2	602051	Akash	Britto	2001-08-23	8523697561	Ngo,Colony	
1	602050	Ajay	Dev	2000-06-09	9600238974	Neyattankari	
NULL	NULL	NULL	NULL	NULL	NULL	NULL	

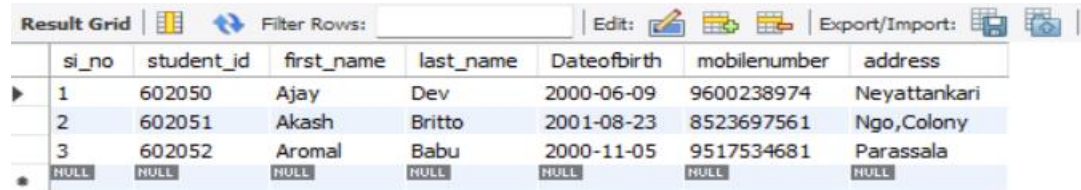
8. How to get data in one record student table using si_no ?
select * from student where si_no =1;



The screenshot shows a 'Result Grid' window with a toolbar at the top containing icons for 'Filter Rows', 'Edit', and 'Export/Import'. Below the toolbar is a table with 8 columns: si_no, student_id, first_name, last_name, Dateofbirth, mobilenummer, and address. The first row contains the data for student 1: si_no=1, student_id=602050, first_name=Ajay, last_name=Dev, Dateofbirth=2000-06-09, mobilenummer=9600238974, and address=Neyattankari. Below this row is a row of NULL values.

si_no	student_id	first_name	last_name	Dateofbirth	mobilenummer	address
1	602050	Ajay	Dev	2000-06-09	9600238974	Neyattankari
NULL	NULL	NULL	NULL	NULL	NULL	NULL

9. How to set a Limit 3 in student table ?
select * from student limit 3;

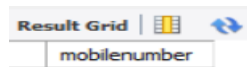


The screenshot shows a 'Result Grid' window with a toolbar at the top. Below the toolbar is a table with 8 columns: si_no, student_id, first_name, last_name, Dateofbirth, mobilenummer, and address. The first three rows contain data for students 1, 2, and 3. The first row is highlighted in blue. Below the data rows is a row of NULL values.

si_no	student_id	first_name	last_name	Dateofbirth	mobilenummer	address
1	602050	Ajay	Dev	2000-06-09	9600238974	Neyattankari
2	602051	Akash	Britto	2001-08-23	8523697561	Ngo, Colony
3	602052	Aromal	Babu	2000-11-05	9517534681	Parassala
NULL	NULL	NULL	NULL	NULL	NULL	NULL

10. How to use a mobilenummer is in null and not null ?

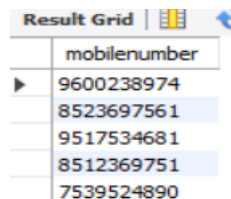
a, select mobilenummer from student where mobilenummer is null;



The screenshot shows a 'Result Grid' window with a toolbar at the top. Below the toolbar is a table with one column: mobilenummer. The first row contains a NULL value.

mobilenummer
NULL

b, Select mobilenummer from student where mobilenummer is not null;

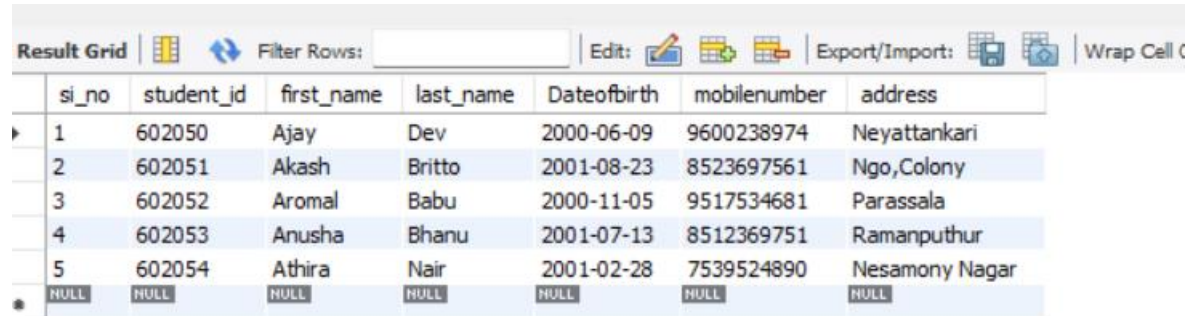


The screenshot shows a 'Result Grid' window with a toolbar at the top. Below the toolbar is a table with one column: mobilenummer. The first five rows contain non-null mobilenummer values: 9600238974, 8523697561, 9517534681, 8512369751, and 7539524890. The first row is highlighted in blue.

mobilenummer
9600238974
8523697561
9517534681
8512369751
7539524890

11. How to use Wildcards in student table ?

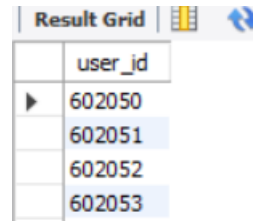
```
select * from student where first_name like ('A%');
```



si_no	student_id	first_name	last_name	Dateofbirth	mobilenumber	address
1	602050	Ajay	Dev	2000-06-09	9600238974	Neyattankari
2	602051	Akash	Britto	2001-08-23	8523697561	Ngo,Colony
3	602052	Aromal	Babu	2000-11-05	9517534681	Parassala
4	602053	Anusha	Bhanu	2001-07-13	8512369751	Ramanputhur
5	602054	Athira	Nair	2001-02-28	7539524890	Nesamony Nagar
NULL	NULL	NULL	NULL	NULL	NULL	NULL

12. How to change the column name in student table using alias ?

```
select student_id as user_id from student;
```



user_id
602050
602051
602052
602053






13. How to Retrieve all columns and rows from the Account tables ?

Select*from Account;

Result Grid		Filter Rows:	Edit:				Expo
	si_no	student_id	Tuition_fees	van_fees	exam_fees	Other_fees	
▶	1	602050	30000	5000	800	2000	
	2	602051	30000	NULL	800	2000	
	3	602052	30000	4500	800	2000	
	4	602053	30000	6000	800	2000	
	5	602054	30000	2500	800	2000	
	6	602055	30000	NULL	800	2000	
	7	602056	30000	NULL	800	2000	
	8	602057	30000	1700	800	2000	
	9	602058	30000	NULL	800	2000	
	10	602059	30000	2700	800	2000	
	11	602060	30000	NULL	800	2000	
	12	602061	30000	1850	800	2000	
*	NULL	NULL	NULL	NULL	NULL	NULL	

14. How to add new column in account tables ?

alter table account add Total int;

Result Grid			 Filter Rows:	<input type="text"/>	Edit:				Export/Imp
	si_no	student_id	Tuition_fees	van_fees	exam_fees	Other_fees	Total		
▶	1	602050	30000	5000	800	2000	NULL		
	2	602051	30000	NULL	800	2000	NULL		
	3	602052	30000	4500	800	2000	NULL		
	4	602053	30000	6000	800	2000	NULL		
	5	602054	30000	2500	800	2000	NULL		
	6	602055	30000	NULL	800	2000	NULL		
	7	602056	30000	NULL	800	2000	NULL		
	8	602057	30000	1700	800	2000	NULL		

15.How to add account in account tables ?

```
select (tuition_fees+van_fees+exam_fees+other_fees) as total from account ;
```

Result Grid		Filter Rows:	Export:
	total		
▶	37800		
	NULL		
	37300		
	38800		
	35300		
	NULL		
	NULL		
	34500		
	NULL		
	35500		
	NULL		
	34650		



16. How to subtract tuition fees and exam fees in account tables ?

```
select (tuition_fees-exam_fees) as Difference from account ;
```

[illegible]

17. How to multiply Tuitionfees and examfees from account table ?

select (tuition_fees*exam_fees) as product from account ;

Result Grid			 Filter
	product		
▶	24000000		
	24000000		
	24000000		
	24000000		
	24000000		
	24000000		

18. How to Divided in tuitionfees and examfees from account table ?

select (tuition_fees/exam_fees) as quaoent from account ;

Result Grid		Filter Rows:
	quotent	
▶	37.5000	
	37.5000	
	37.5000	
	37.5000	
	37.5000	

19. How to update a column in account tables ?

```
update account set total = 37800 where si_no=1;
```

Result Grid		Filter Rows:		Edit:		Export/Import	
	si_no	student_id	Tuition_fees	van_fees	exam_fees	Other_fees	Total
▶	1	602050	30000	5000	800	2000	37800
	2	602051	30000	NULL	800	2000	32800

20.How to find total value account table in tuition fees ?

```
select *,(Tuition_fees) as totalvalue from account;
```

Result Grid		Filter Rows:		Export:		Wrap Cell Content:		
	si_no	student_id	Tuition_fees	van_fees	exam_fees	Other_fees	Total	totalvalue
▶	1	602050	30000	5000	800	2000	37800	30000
	2	602051	30000	NULL	800	2000	32800	30000
	3	602052	30000	4500	800	2000	37300	30000
	4	602053	30000	6000	800	2000	38800	30000
	5	602054	30000	3500	800	2000	36300	30000

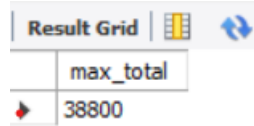
21. How to find total spent value in account table in exam fees ?

```
select(exam_fees) as total_spent from account;
```

[illegible]

22.How to find Maximum value in total in Account tables ?

```
select max(total) as max_total from account;
```

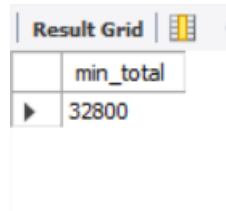


A screenshot of a database result grid. The title bar says 'Result Grid'. The grid has two columns: 'max_total' and a value '38800'. There is a red arrow icon in the first row, first column.

	max_total
▶	38800

23. How to find Minimum value in total Account tables ?

```
select min(total) as min_total from account;
```




A screenshot of a database result grid. The title bar says 'Result Grid'. The grid has two columns: 'min_total' and a value '32800'. There is a right-pointing arrow icon in the first row, first column.

	min_total
▶	32800

24.How to find Attendance table student_id of students who where present in January ?

```
select student_id,month,date,attendance from attendances  
where month ='January' and attendance='present';
```

Result Grid



Filter Rows:

Exp

	student_id	month	date	attendance
▶	602050	January	2024-01-03	present
	602051	January	2024-01-03	present
	602053	January	2024-01-03	present
	602055	January	2024-01-03	present
	602056	January	2024-01-03	present
	602057	January	2024-01-03	present
	602059	January	2024-01-03	present
	602061	January	2024-01-03	present
	602050	January	2024-01-04	present
	602051	January	2024-01-04	present
	602052	January	2024-01-04	present
	602055	January	2024-01-04	Present



attendance 157

25. How to find Attendance table student_id of students who where absent in January ?

select student_id,month,date,attendance from attendances

where month ='January' and attendance='absent';


Result Grid

  Filter Rows:

	student_id	month	date	attendance
▶	602052	January	2024-01-03	Absent
	602054	January	2024-01-03	Absent
	602058	January	2024-01-03	Absent
	602060	January	2024-01-03	Absent
	60203	January	2024-01-04	Absent
	602053	January	2024-01-04	Absent
	602054	January	2024-01-04	Absent
	602056	January	2024-01-04	Absent
	602061	January	2024-01-04	Absent
	602050	January	2024-01-05	Absent
	602052	January	2024-01-05	Absent
	602056	January	2024-01-05	Absent


26. How to count Attendance table student_id ,month who where absent in January in using group by ?

```
select student_id,month ,count(attendance) as absent from attendances  
where attendance='absent' and month ='january' group by student_id;
```

Result Grid			Filter Rows:
	student_id	month	absent
▶	602052	January	5
	602054	January	5
	602058	January	3
	602060	January	7
	60203	January	1
	602053	January	2
	602056	January	2
	602061	January	4
	602050	January	2
	602057	January	4
	602055	January	1
	602059	January	1

27. How to count attendance table student_id,month who where present in Febuary in using group by ?

```
select student_id,month ,count(attendance) as present from attendances  
where month ='february'and attendance='Present' group by student_id;
```

Result Grid			Filter Rows:
	student_id	month	present
▶	602050	Febuary	1
	602051	Febuary	1
	602052	Febuary	1
	602053	Febuary	1
	602054	Febuary	1
	602055	Febuary	1
	602056	Febuary	1
	602057	Febuary	1
	602058	Febuary	1
	602059	Febuary	1
	602060	Febuary	1
	602061	Febuary	1

28. How to find Attendance table Holiday is not null to use student_id ,Month and absent ?

select month,date,holiday from attendances where Holiday is not null;

Result Grid			
Filter Rows:			
	month	date	holiday
▶	january	2024-01-06	saturday
	january	2024-01-07	sunday
	january	2024-01-13	saturday
	january	2024-01-14	sunday
	january	2024-01-16	Pongal
	january	2024-01-17	Pongal
	january	2024-01-18	Pongal
	january	2024-01-19	Pongal
	january	2024-01-20	saturday
	january	2024-01-21	sunday
	january	2024-01-27	saturday
	january	2024-01-28	sunday

29. How to find percentage in attendance table ?

select (13/29)*100 as percentage from attendances where si_no =12;

Result Grid								
Filter Rows:								
Edit: Export/Import: W								
	si_no	student_id	month	date	attendance	Holiday	Total_attendance	Percentage
▶	1	602050	January	2024-01-03	present	NULL	15	51
	2	602051	January	2024-01-03	present	NULL	16	41
	3	602052	January	2024-01-03	Absent	NULL	15	51
	4	602053	January	2024-01-03	present	NULL	15	51
	5	602054	January	2024-01-03	Absent	NULL	12	41
	6	602055	January	2024-01-03	present	NULL	16	55
	7	602056	January	2024-01-03	present	NULL	15	51
	8	602057	January	2024-01-03	present	NULL	13	44
	9	602058	January	2024-01-03	Absent	NULL	14	48
	10	602059	January	2024-01-03	present	NULL	16	55
	11	602060	January	2024-01-03	Absent	NULL	10	34
	12	602061	January	2024-01-03	present	NULL	13	44

30. How to Retrieves all columns and rows from the result tables ?

`select*from result;`

	si_no	student_id	Roll_No	Tamil	English	Mathematics	Science	SocialScience	Total	Result
▶	1	602050	18283201	93	97	100	98	90	478	Pass
	2	602052	18283203	34	58	47	38	62	239	Fail
	3	602053	18283204	84	96	77	88	92	437	Pass
	4	602054	18283205	90	96	97	90	92	465	Pass
	5	602055	18283206	70	90	58	74	81	373	Pass
	6	602056	18283207	50	45	35	38	40	208	Pass
	7	602057	18283208	88	75	95	78	80	416	Pass
	8	602058	18283209	40	37	31	50	60	218	Fail
	9	602059	18283210	100	100	97	95	100	492	Pass
	10	602060	18283211	78	60	33	55	80	306	Fail
	11	602061	18283212	47	62	24	35	47	215	Fail

31.What is maximun total in result tables ?

`select max(total) as maximumtotal from result;`

	maximumtotal
▶	492

32. What is minimum total in result tables ?

`select min(total) as minimumtotal from result;`

	minimumtotal
▶	208

33. How to order a result column using order by ?

```
select*from result order by result;
```

Total	Result
239	Fail
218	Fail
306	Fail
215	Fail
478	Pass
437	Pass
465	Pass
373	Pass
208	Pass
416	Pass
492	Pass

34.How to find failed students in result tables ?

```
select*from result where result="fail";
```

[illegible]

35.How to find passed student in result tables ?

```
select * from result where result="pass";
```

Result Grid										
		Filter Rows:		Edit:		Export/Import:		Wrap Cell Content:		
	si_no	student_id	Roll_No	Tamil	English	Mathematics	Science	SocialScience	Total	Result
▶	1	602050	18283201	93	97	100	98	90	478	Pass
	3	602053	18283204	84	96	77	88	92	437	Pass
	4	602054	18283205	90	96	97	90	92	465	Pass
	5	602055	18283206	70	90	58	74	81	373	Pass
	6	602056	18283207	50	45	35	38	40	208	Pass
	7	602057	18283208	88	75	95	78	80	416	Pass
	9	602059	18283210	100	100	97	95	100	492	Pass
*	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL

36.How many students pass in result table using count?

```
select count(result) as pass from result where result = 'pass' ;
```

Result Grid		Filter Rows:		Export:
	pass			
▶	7			

37. How many students Failed in result table using count?

```
select count(result) as fail from result where result = 'fail' ;
```

Result Grid		Filter Rows:		Export:	Wrap Cell Content:
	fail				
▶	4				

38. How to find average total with Rollno in result tables using > than ?

```
select roll_no,total from result where total >(select avg(total) from result) ;
```

Result Grid			Filter Rows:
	roll_no	total	
▶	18283201	478	
	18283204	437	
	18283205	465	
	18283206	373	
	18283208	416	
	18283210	492	

39. How to find > 60 Marks in English and < 50 marks in Maths with student Roll no?

a)select Roll_No, English from result where english >60;



Result Grid			Filter
	Roll_No	English	
▶	18283201	97	
	18283204	96	
	18283205	96	
	18283206	90	
	18283208	75	
	18283210	100	
	18283212	62	

b) select Roll_no ,Mathematics from result where Mathematics <50;

	roll_no	mathematics
▶	18283203	47
	18283207	35
	18283209	31
	18283211	33
	18283212	24

40.How to use Group by ,order by , Having count <2 in result table to use student_id,Roll_no,Total ?

```
select student_id,Roll_No,total from result where student_id in  
(select student_id from result group by student_id having count(*)<2) order by 1 ;
```

Result Grid   Filter Rows:			
	student_id	Roll_No	total
▶	602050	18283201	478
	602051	18283202	374
	602052	18283203	239
	602053	18283204	437
	602054	18283205	465
	602055	18283206	373
	602056	18283207	208
	602057	18283208	416
	602058	18283209	218
	602059	18283210	492
	602060	18283211	306
	602061	18283212	215

41. How to Apply the case statement in result table in to find total ?

```
select student_id,
```

```
Case
```

```
when total between 100 and 310 then 'poor'
```

```
when total between 320 and 400 then 'medium'
```

```
when total between 400 and 470 then 'Good'
```

```
when total between 470 and 500 then 'Excelent'
```

```
else'undefined'
```

```
end as
```

```
Total from result ;
```

Result Grid			Filter Rows: _
	student_id	total	
▶	602050	Excelent	
	602052	poor	
	602053	Good	
	602054	Good	
	602055	medium	
	602056	poor	
	602057	Good	
	602058	poor	
	602059	Excelent	
	602060	poor	
	602061	poor	
	602051	medium	

42.Using joins to find concat first_name and last_name,DOB,percentage,exam fees ,all subject ,total ,and result to take a output in all tables ?

```

selectconcat(s.first_name," ",s.last_name), s.Dateofbirth,Ae.percentage,
a.Exam_fees,r.Roll_no,r.Tamil,r.English,r.Mathematics,r.Science,r.SocialScience,r.Total,r.Result
from student s
join Account a
on s.student_id=a.student_id
join attendances ae
on a.student_id=ae.student_id
join result r
on r.student_id=ae.student_id;

```


44.How to delete a one data one row Two times to using student Table ?
delete from student where si_no =13;

Before out put : row 5 and 13 same

Result Grid		Filter Rows:		Edit:		Export/Import:		Wra	
si_no	student_id	first_name	last_name	Dateofbirth	mobilenumber	address			
3	602052	Aromal	Babu	2000-11-05	9517534681	Parassala			
4	602053	Anusha	Bhanu	2001-07-13	8512369751	Ramanputhur			
5	602054	Athira	Nair	2001-02-28	7539524890	Nesamony Nagar			
6	602055	Benny	Alex	2000-09-09	9275386428	Watertank Road Ngl			
7	602056	Beno	Sherbin	2000-01-24	8376932876	WCC Road Ngl			
8	602057	Benisha	Rose	2000-03-07	7539518614	sasthankarai			
9	602058	Gino	Sterbin	2001-11-27	9517536497	Colachel			
10	602059	Jeberson	Samuel	2000-08-17	8631597561	Vinoth Nagar			
11	602060	Micheal	Raj	2000-04-06	7531596314	Thiruvalluvar street 1			
12	602061	Nithish	Kumar	2001-09-16	8296363741	Mondaymarket			
13	602054	Athira	Nair	2001-02-28	7539524890	Nesamony Nagar			
NULL	NULL	NULL	NULL	NULL	NULL	NULL			

After output:

Result Grid		Filter Rows:		Edit:		Export/Import:	
si_no	student_id	first_name	last_name	Dateofbirth	mobilenumber	address	
1	602050	Ajay	Dev	2000-06-09	9600238974	Neyattankari	
2	602051	Akash	Britto	2001-08-23	8523697561	Ngo,Colony	
3	602052	Aromal	Babu	2000-11-05	9517534681	Parassala	
4	602053	Anusha	Bhanu	2001-07-13	8512369751	Ramanputhur	
5	602054	Athira	Nair	2001-02-28	7539524890	Nesamony Nagar	
6	602055	Benny	Alex	2000-09-09	9275386428	Watertank Road Ngl	
7	602056	Beno	Sherbin	2000-01-24	8376932876	WCC Road Ngl	
8	602057	Benisha	Rose	2000-03-07	7539518614	sasthankarai	
9	602058	Gino	Sterbin	2001-11-27	9517536497	Colachel	
10	602059	Jeberson	Samuel	2000-08-17	8631597561	Vinoth Nagar	
11	602060	Micheal	Raj	2000-04-06	7531596314	Thiruvalluvar street 1	
12	602061	Nithish	Kumar	2001-09-16	8296363741	Mondaymarket	

