SQL PROJECT

Photography Services

Name: Sagar Nangare

Available Tables:

1.Users

2. Users Address

3. Employees

4. Employees Address

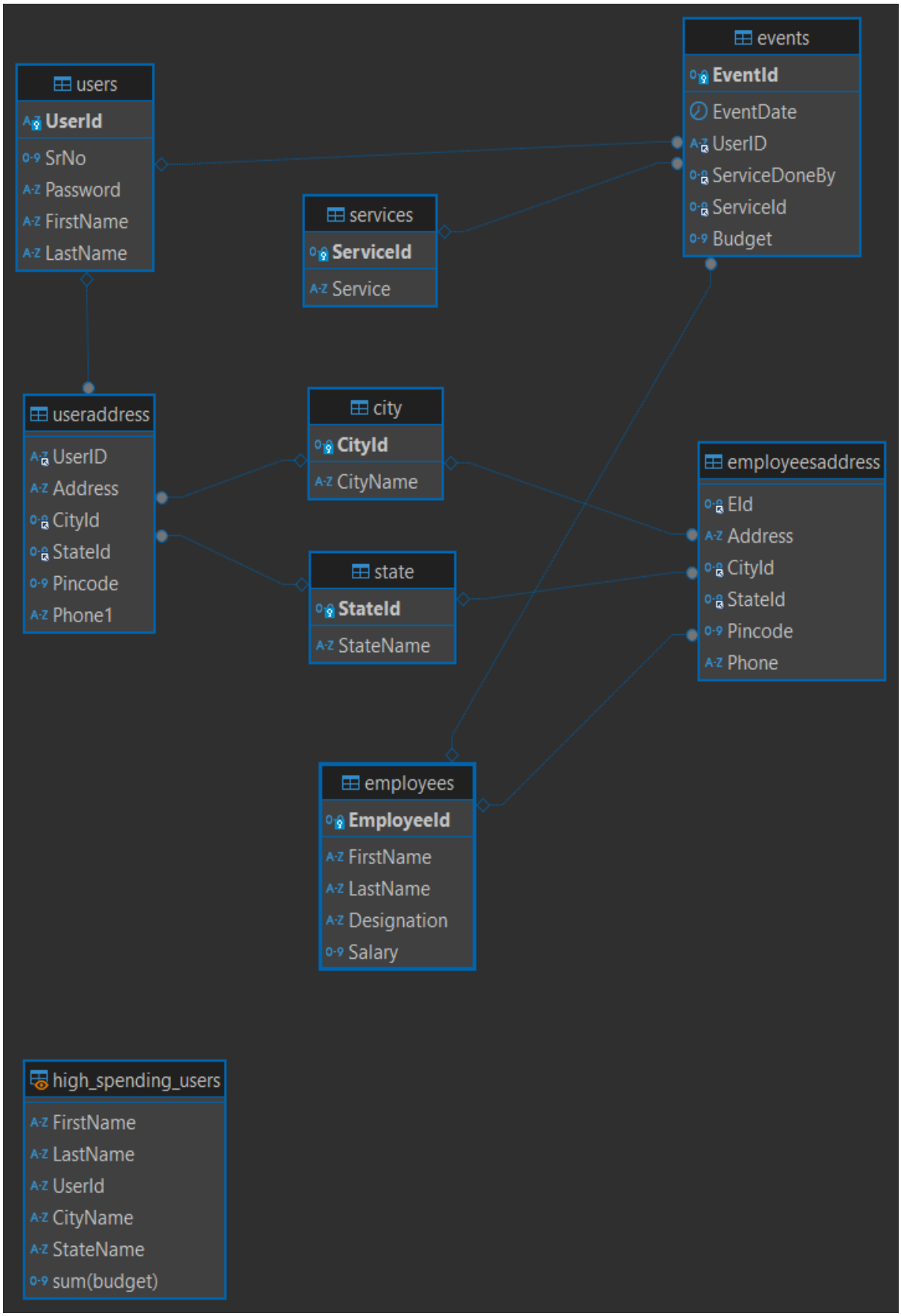
5. Events

6. Services

7. City

8. State

ER Diagram:


users
UserId
SrNo
Password
FirstName
LastName
events
EventId
EventDate
UserID
ServiceDoneBy
ServiceId
Budget
services
ServiceId
Service
useraddress
UserID
Address
CityId
StateId
Pincode
Phone1
city
CityId
CityName
state
StateId
StateName
employeesaddress
EId
Address
CityId
StateId
Pincode
Phone
employees
EmployeeId
FirstName
LastName
Designation
Salary
high_spending_users
FirstName
LastName
UserId
CityName
StateName
sum(budget)

1. Create a Table named UserLogin.

```
create table UserLogin
(SrNo int,
UserId varchar(50) primary key,
Password varchar(50),
Name varchar(50));

desc userlogin ;
```

COLUMNS 1

desc userlogin | Enter a SQL expression to filter results (use Ctrl+Space)

	Field	Type	Null	Key	Default	Extra
1	SrNo	int(11)	YES		[NULL]	
2	UserId	varchar(50)	NO	PRI	[NULL]	
3	Password	varchar(50)	YES		[NULL]	
4	Name	varchar(50)	YES		[NULL]	

2. Rename table UserLogin to UserData.

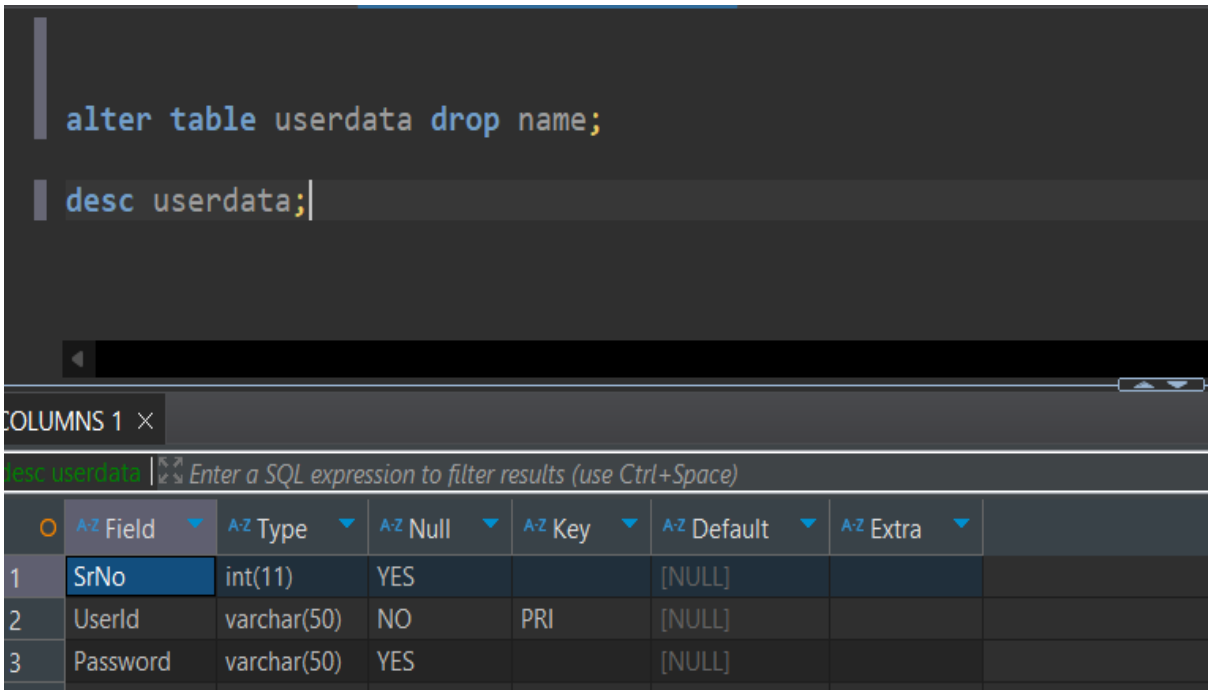
```
rename table userlogin to userdata;

desc userdata;
```

COLUMNS 1

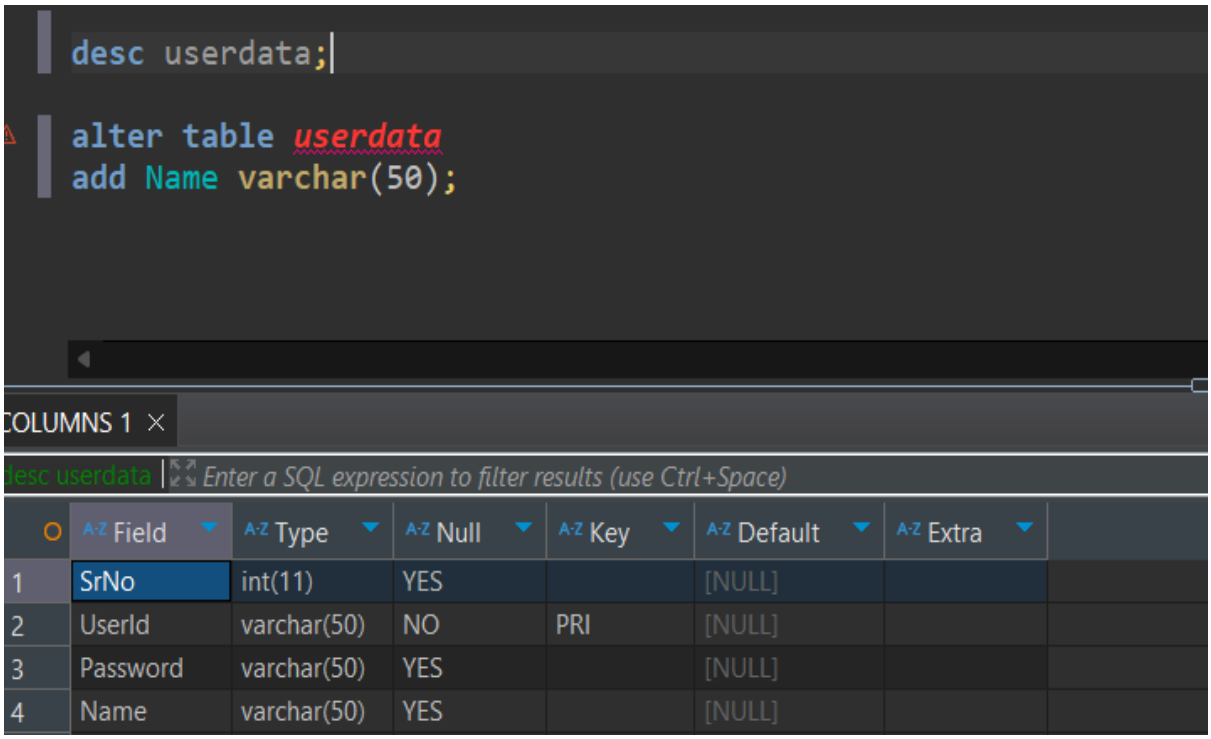
desc userdata | Enter a SQL expression to filter results (use Ctrl+Space)

	Field	Type	Null	Key	Default	Extra
1	SrNo	int(11)	YES		[NULL]	
2	UserId	varchar(50)	NO	PRI	[NULL]	
3	Password	varchar(50)	YES		[NULL]	
4	Name	varchar(50)	YES		[NULL]	

3.Drop the column name.



4. Add column Name in userdata table.



5. Change column ‘Name’ to ‘FirstName’ and add new column ‘LastName’.

```
alter table userdata
change Name
FirstName varchar(20);

alter table userdata
add LastName varchar(50);

desc userdata;
```

COLUMNS 1

desc userdata | Enter a SQL expression to filter results (use Ctrl+Space)

	Field	Type	Null	Key	Default	Extra
1	SrNo	int(11)	YES		[NULL]	
2	UserId	varchar(50)	NO	PRI	[NULL]	
3	Password	varchar(50)	YES		[NULL]	
4	FirstName	varchar(20)	YES		[NULL]	
5	LastName	varchar(50)	YES		[NULL]	

6. Change the Column ‘FirstName’ datatype varchar(50)

```
desc userdata;

alter table userdata
modify FirstName varchar(50);
```

COLUMNS 1

desc userdata | Enter a SQL expression to filter results (use Ctrl+Space)

	Field	Type	Null	Key	Default	Extra
1	SrNo	int(11)	YES		[NULL]	
2	UserId	varchar(50)	NO	PRI	[NULL]	
3	Password	varchar(50)	YES		[NULL]	
4	FirstName	varchar(50)	YES		[NULL]	
5	LastName	varchar(50)	YES		[NULL]	

7. Insert values in table UserData.

```
insert into userdata(SrNo, UserId, Password, FirstName, LastName)
values(1,'ara12@abc.com', 'A1b2C3d4', 'Aarav', 'Sharma'),
(2,'sitaven@abc.com', 'P@ssw0rd', 'Sita', 'Venkatesh'),
(3, 'divchat@abc.com', 'R3d!F1sh', 'Divya', 'Chatterjee'),
(4, 'bhatara@abc.com', '$ecure9A', 'Tara', 'Bhalla'),
(5, 'mehta23@abc.com', 'M!x3dB@', 'Akash', 'Mehta');

select * from userdata;
```

userdata 1 ×

select * from userdata | Enter a SQL expression to filter results (use Ctrl+Space)

	SrNo	UserId	Password	FirstName	LastName
1	1	ara12@abc.com	A1b2C3d4	Aarav	Sharma
2	2	sitaven@abc.com	P@ssw0rd	Sita	Venkatesh
3	3	divchat@abc.com	R3d!F1sh	Divya	Chatterjee
4	4	bhatara@abc.com	$ecure9A	Tara	Bhalla
5	5	mehta23@abc.com	M!x3dB@	Akash	Mehta

8. Change the Specific value of column.

```
select * from userdata;

update userdata
set LastName = 'Bhat'
where SrNo = 4;
```

userdata 1 ×

select * from userdata | Enter a SQL expression to filter results (use Ctrl+Space)

	SrNo	UserId	Password	FirstName	LastName
1	1	ara12@abc.com	A1b2C3d4	Aarav	Sharma
2	2	sitaven@abc.com	P@ssw0rd	Sita	Venkatesh
3	3	divchat@abc.com	R3d!F1sh	Divya	Chatterjee
4	4	bhatara@abc.com	$ecure9A	Tara	Bhat
5	5	mehta23@abc.com	M!x3dB@	Akash	Mehta

9. Delete the row where SrNo = 5.

```
delete from userdata
where srno = 5;
```

userdata 1

select * from userdata | Enter a SQL expression to filter results (use Ctrl+Space)

	SrNo	UserId	Password	FirstName	LastName
1	1	ara12@abc.com	A1b2C3d4	Aarav	Sharma
2	2	sitaven@abc.com	P@ssw0rd	Sita	Venkatesh
3	3	divchat@abc.com	R3d!F1sh	Divya	Chatterjee
4	4	bhatara@abc.com	$ecure9A	Tara	Bhat

10. Delete the userdata using Truncate.

```
truncate table userdata;

select * from userdata;
```

serdata 1

elect * from userdata | Enter a SQL expression to filter results (use Ctrl+Space)

SrNo	UserId	Password	FirstName	LastName

11. Add foreign key in table UserAddress.

```
ALTER TABLE useraddress
ADD CONSTRAINT FK_UserId
FOREIGN KEY (UserId)
REFERENCES UserLogin (UserId)
ADD CONSTRAINT FK_CityId
FOREIGN KEY (CityId)
REFERENCES City (CityId)
ADD CONSTRAINT FK_StateId
FOREIGN KEY (StateID)
REFERENCES State(StateId);

desc useraddress ;
```

COLUMNS 1

desc useraddress | Enter a SQL expression to filter results (use Ctrl+Space)

	Field	Type	Null	Key	Default	Extra
1	UserID	varchar(50)	YES	MUL	[NULL]	
2	Address	varchar(50)	YES		[NULL]	
3	CityId	int(11)	YES	MUL	[NULL]	
4	StateId	int(11)	YES	MUL	[NULL]	
5	Pincode	int(11)	YES		[NULL]	
6	Phone1	varchar(15)	YES		[NULL]	

12. Write a query to retrieve the current date using CURDATE() and alias the result as "Today_Date”.

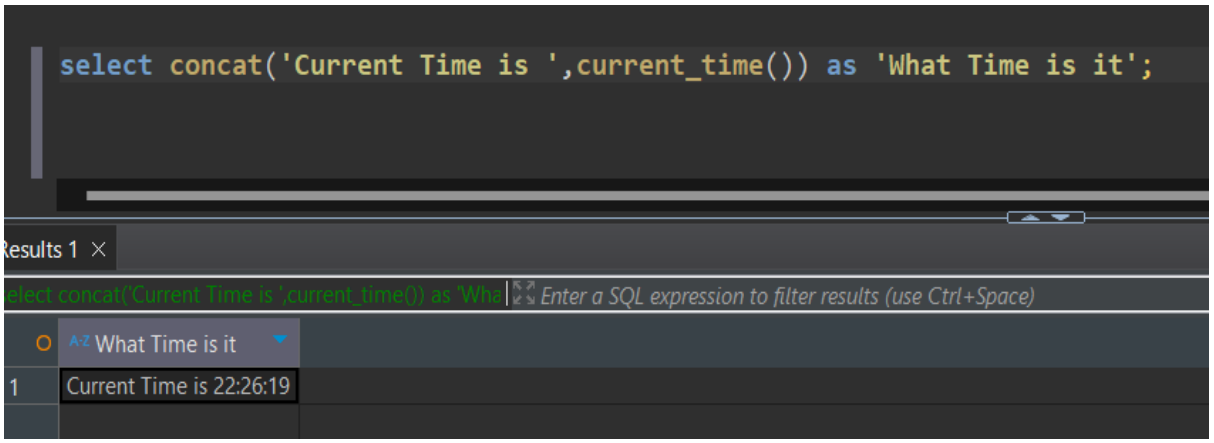
```
select date_format(current_date(),'%D %M, %Y') as TODAY_DATE;
```

Results 1

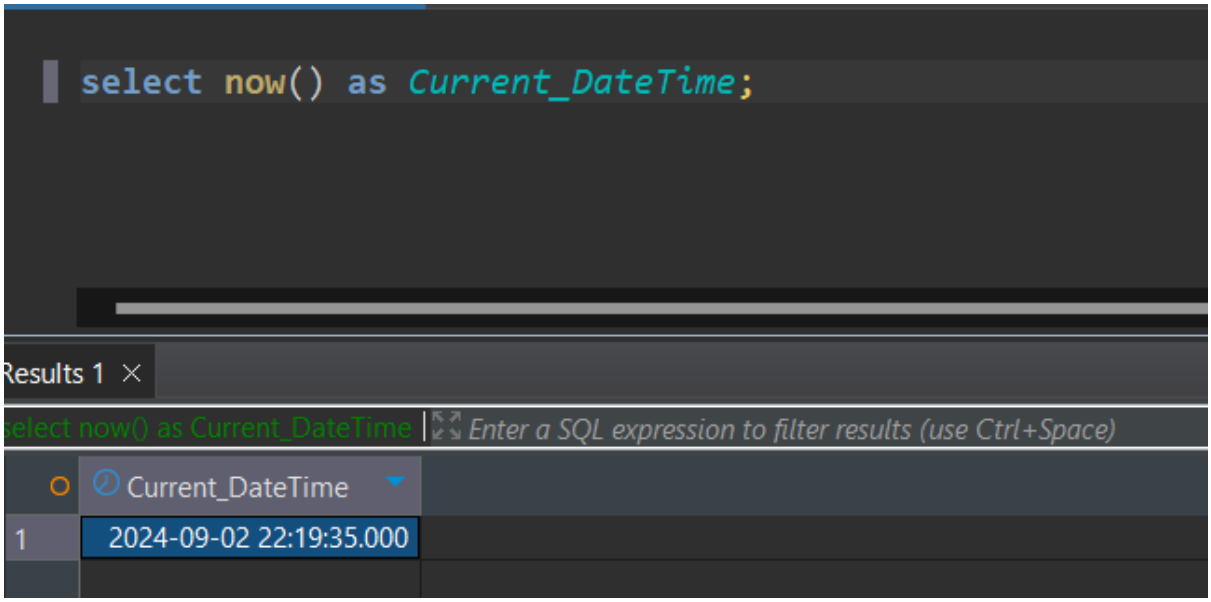
select date_format(current_date(),'%D %M, %Y') as TO | Enter a SQL expression to filter results (use Ctrl+Space)

	TODAY_DATE
1	2nd September, 2024

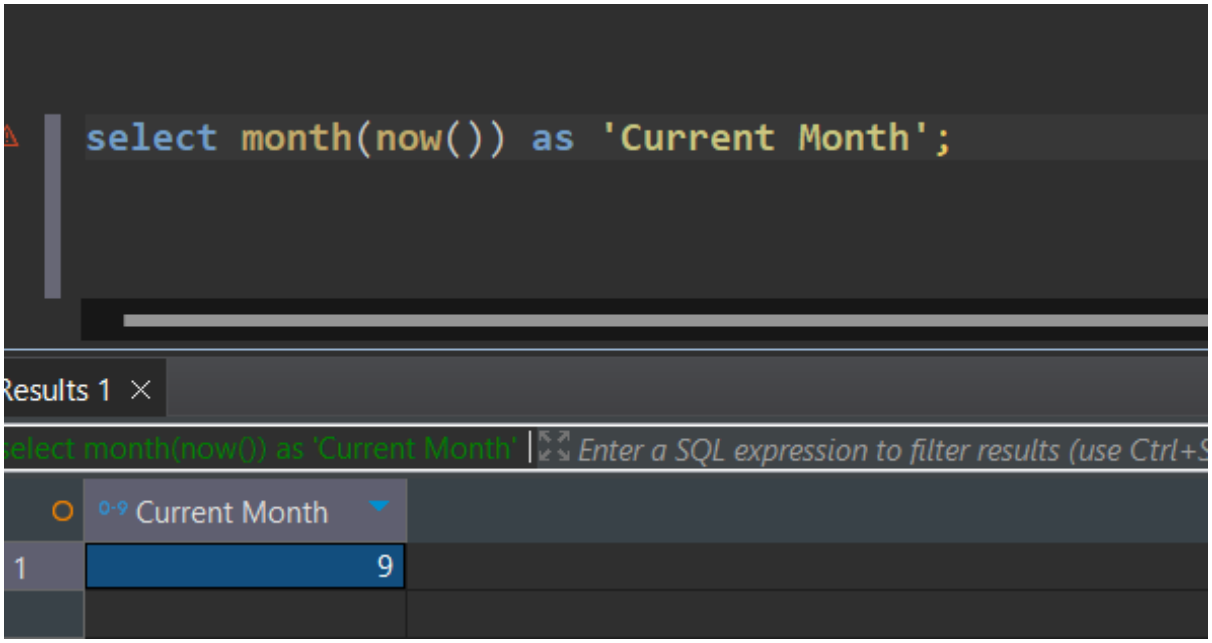
13. Write a query display the current time along with a custom message, like "Current Time is [current time]".



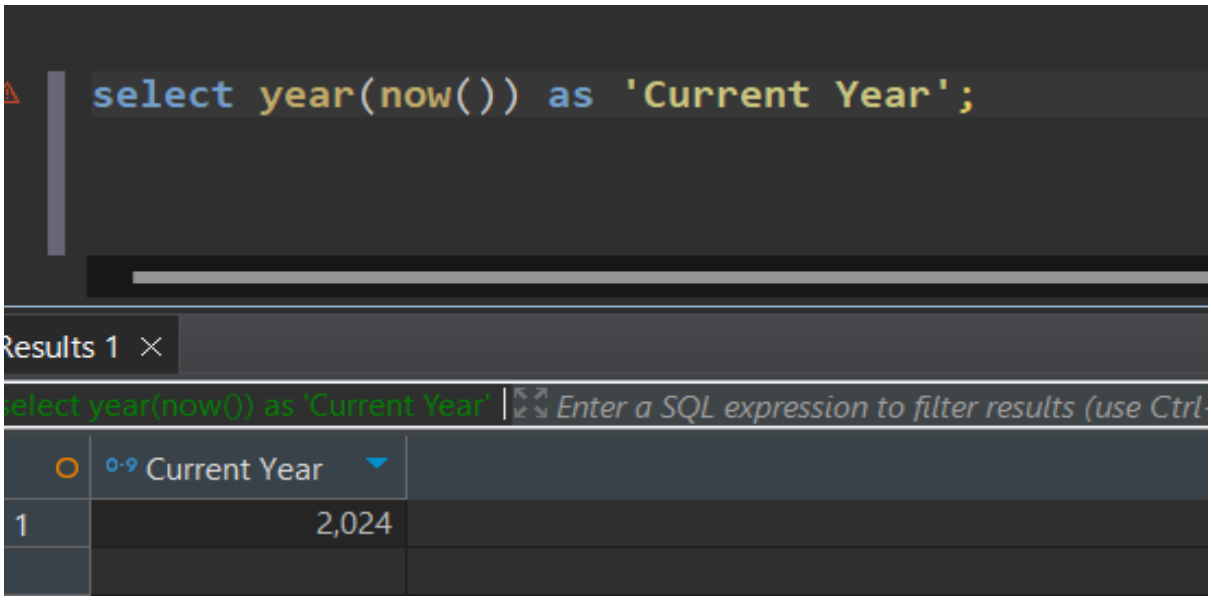
14. Write a query to display the current date and time using the NOW() function.



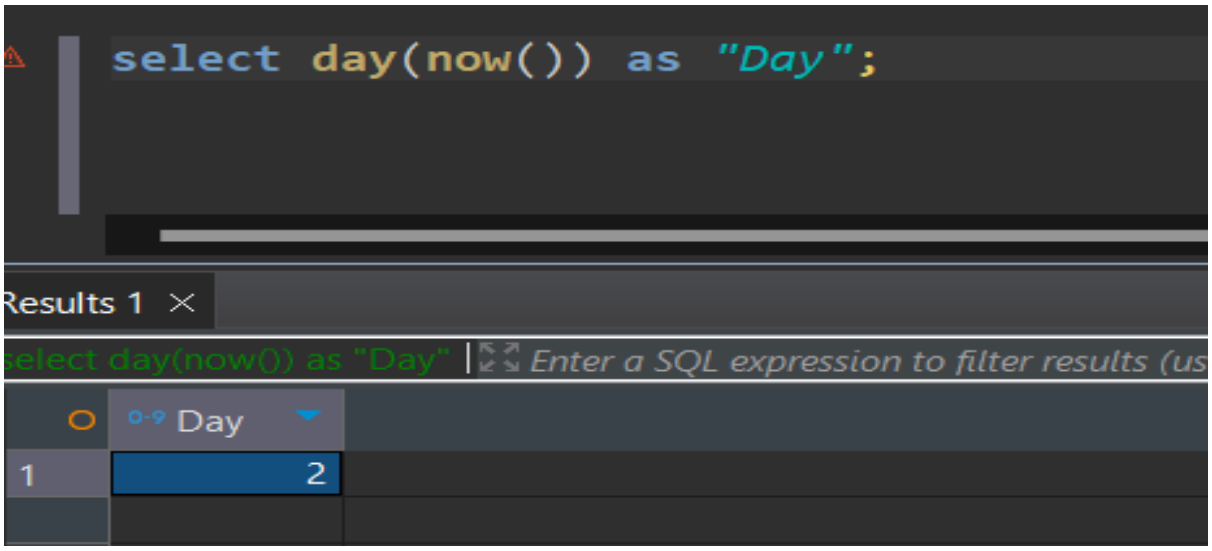
15. Display the current month.



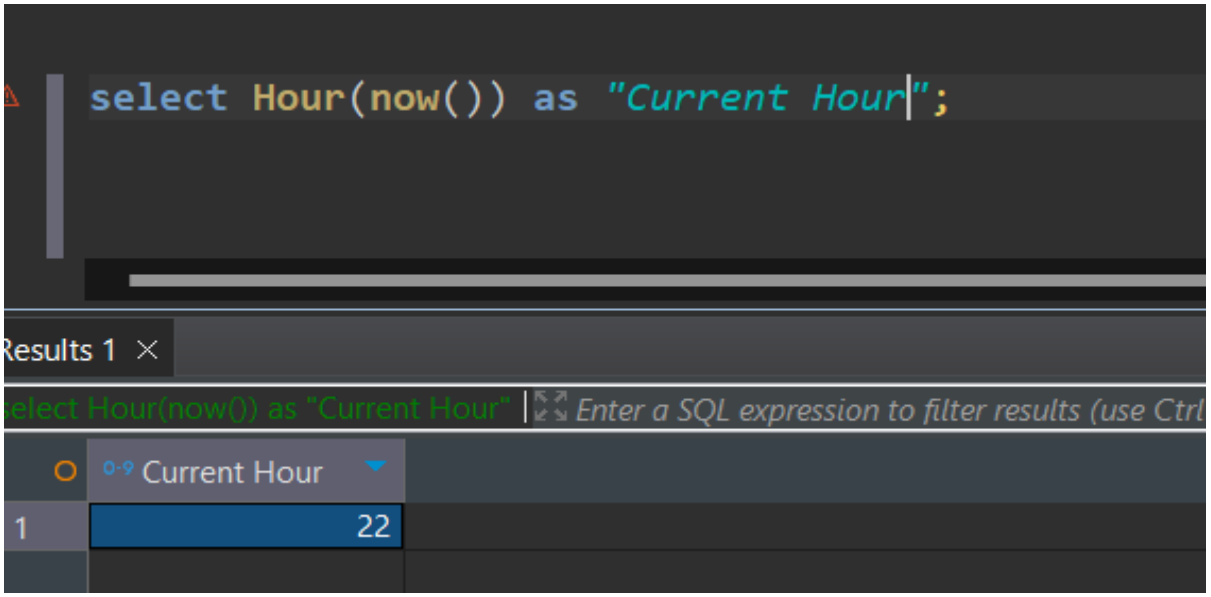
16. Display the current year.



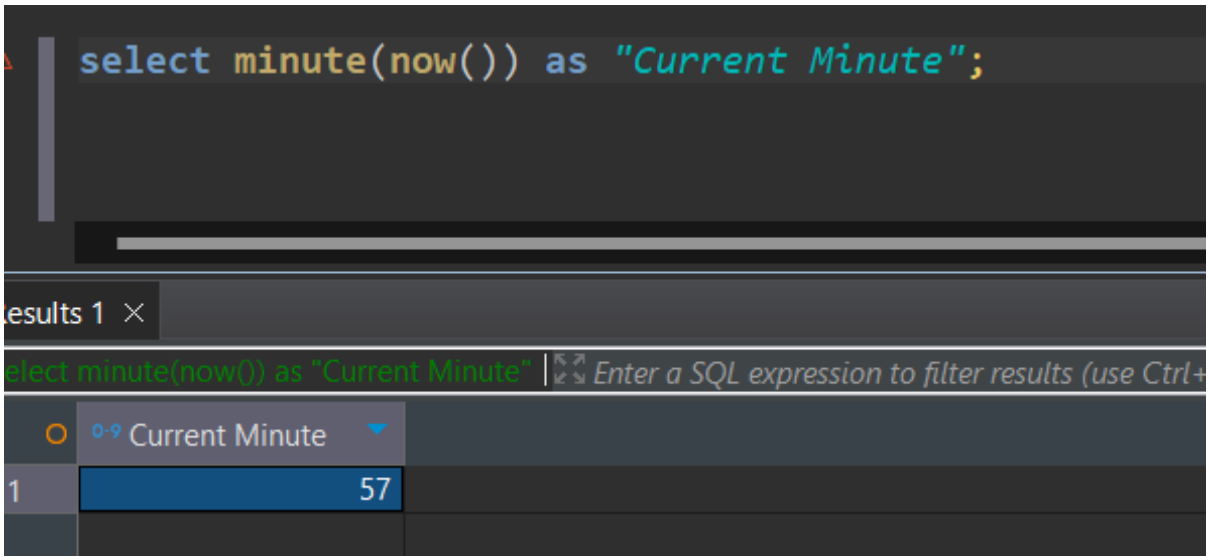
17. Display the current day.



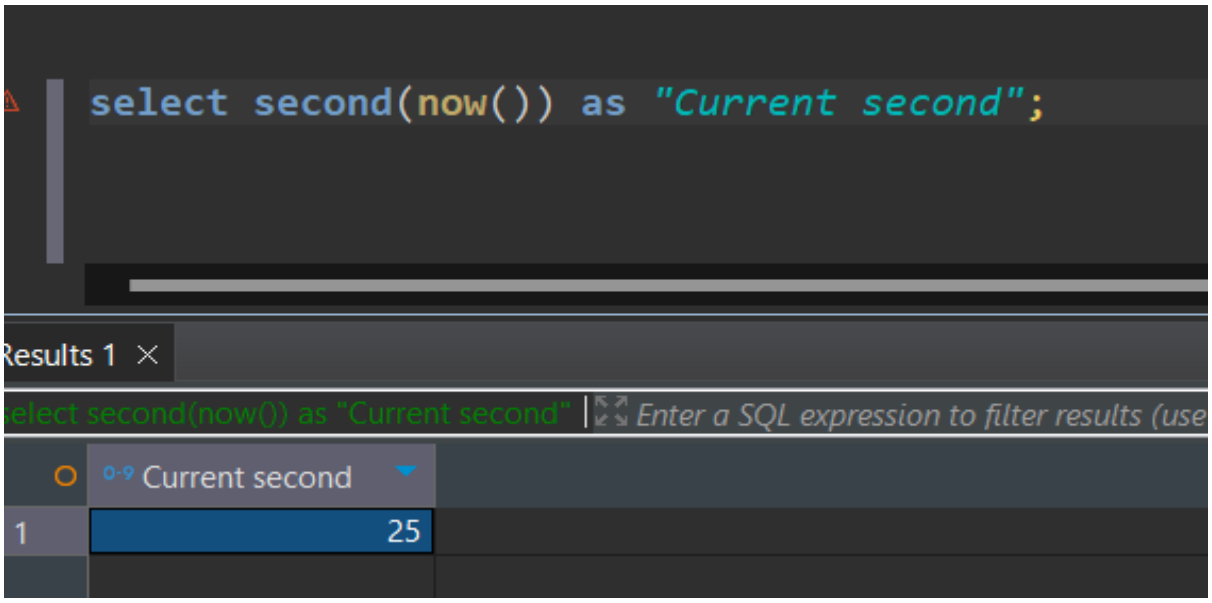
18. Display the current hour.



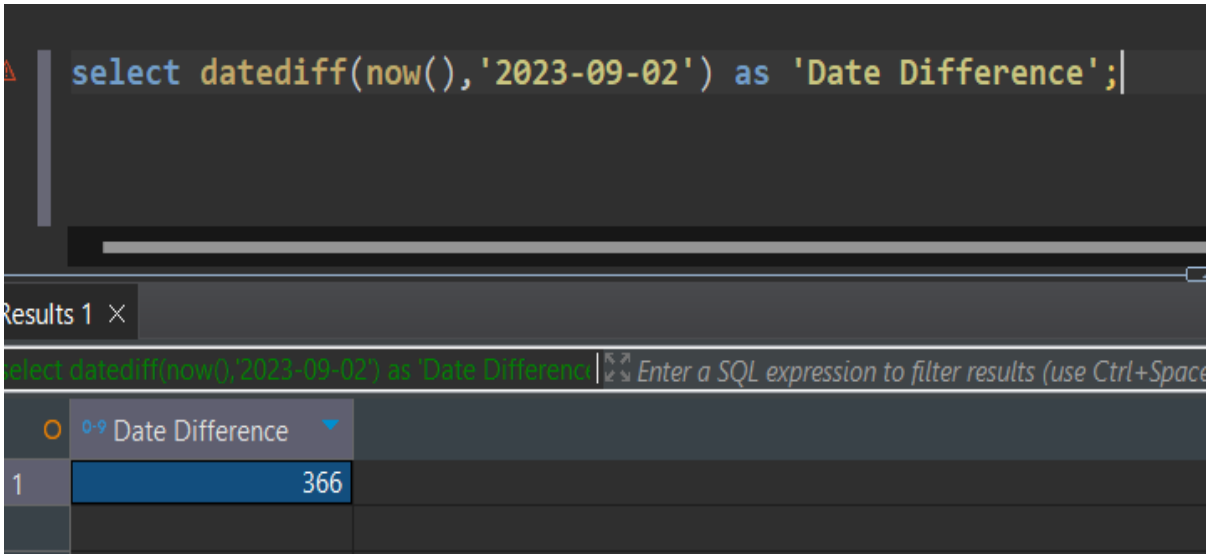
19. Display the current minute.



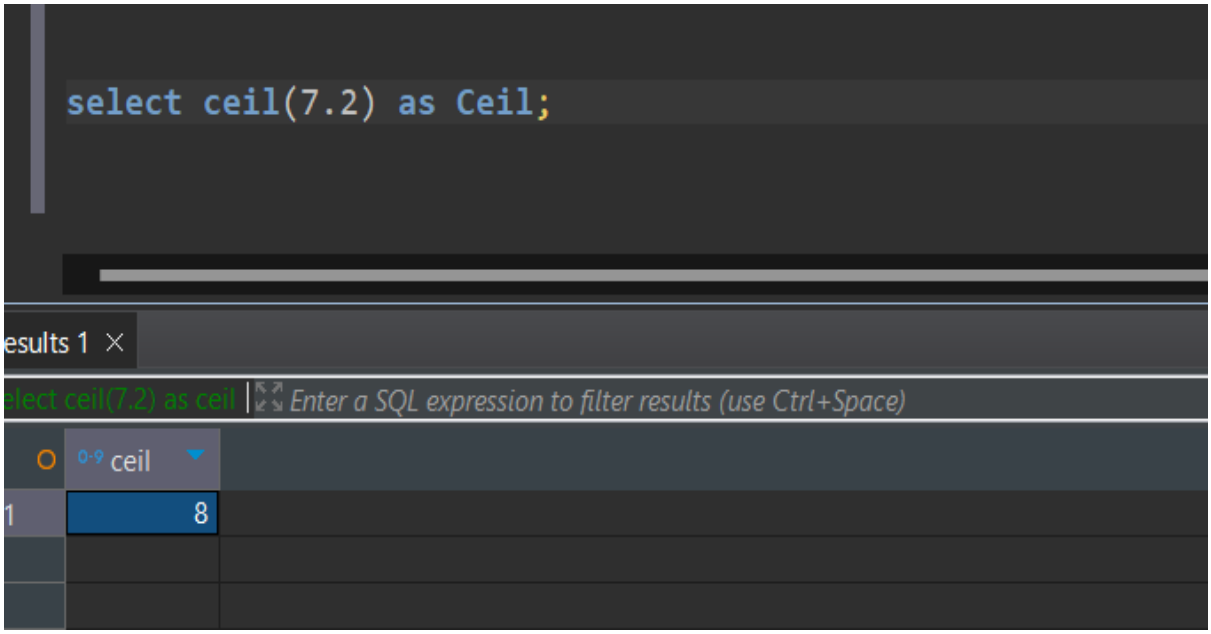
20. Display the current second.



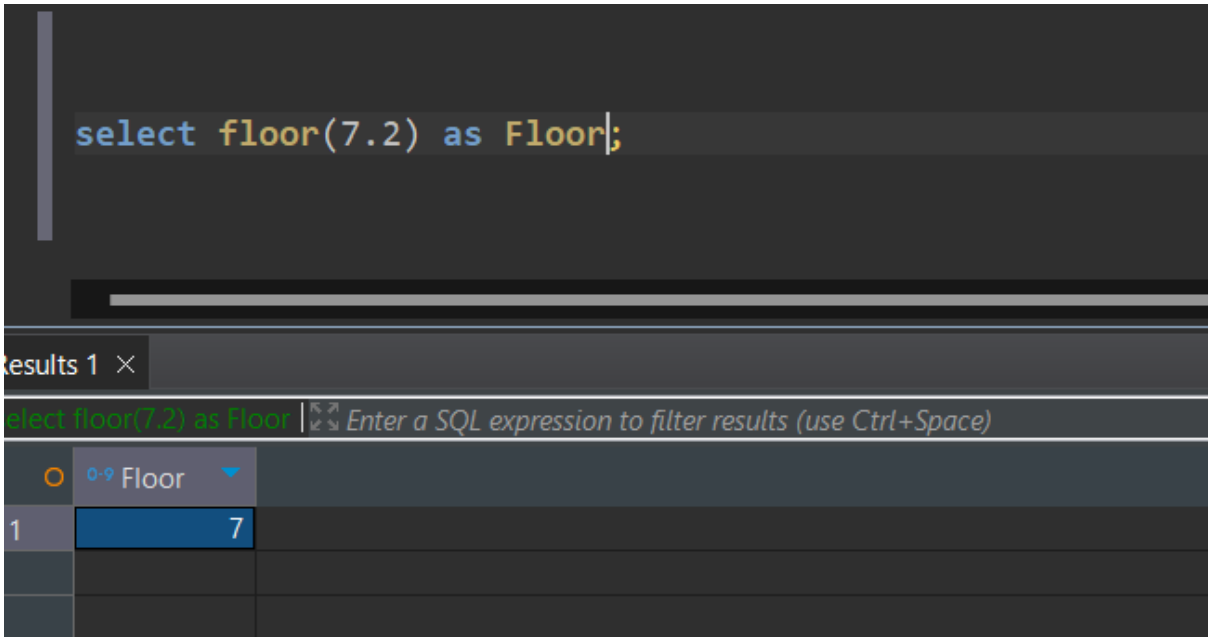
21. Display the date difference.



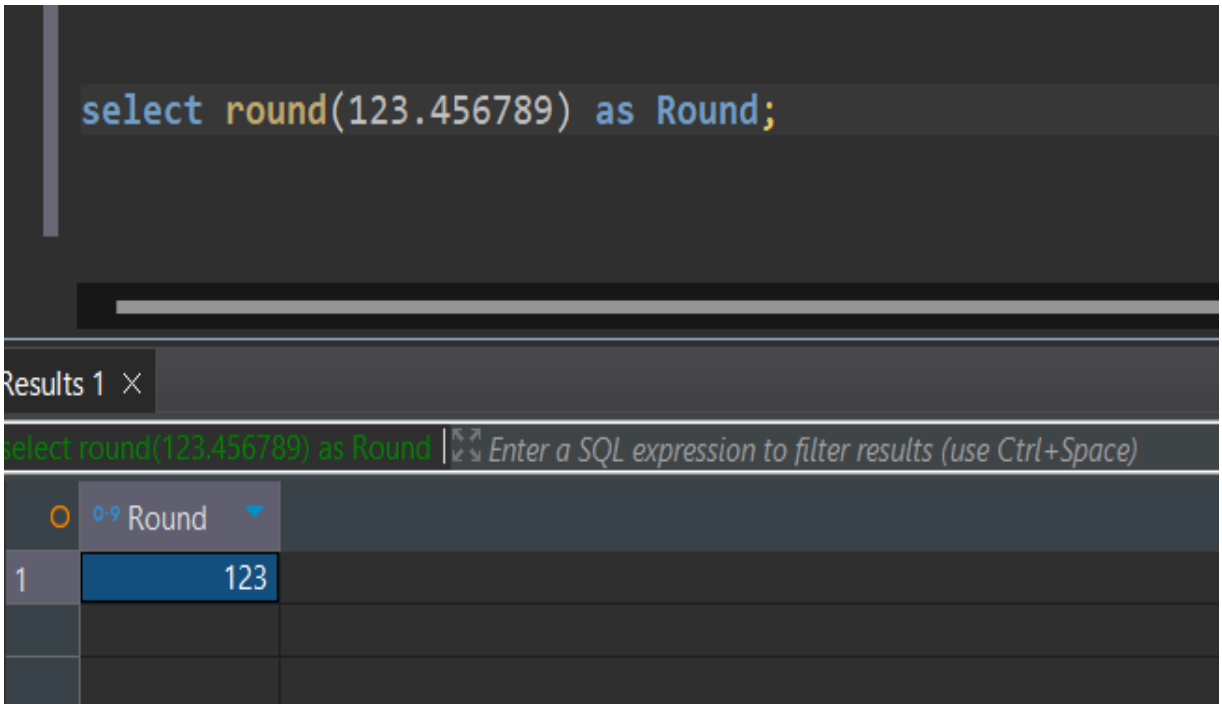
22. Write a query to find the ceil of 7.2.



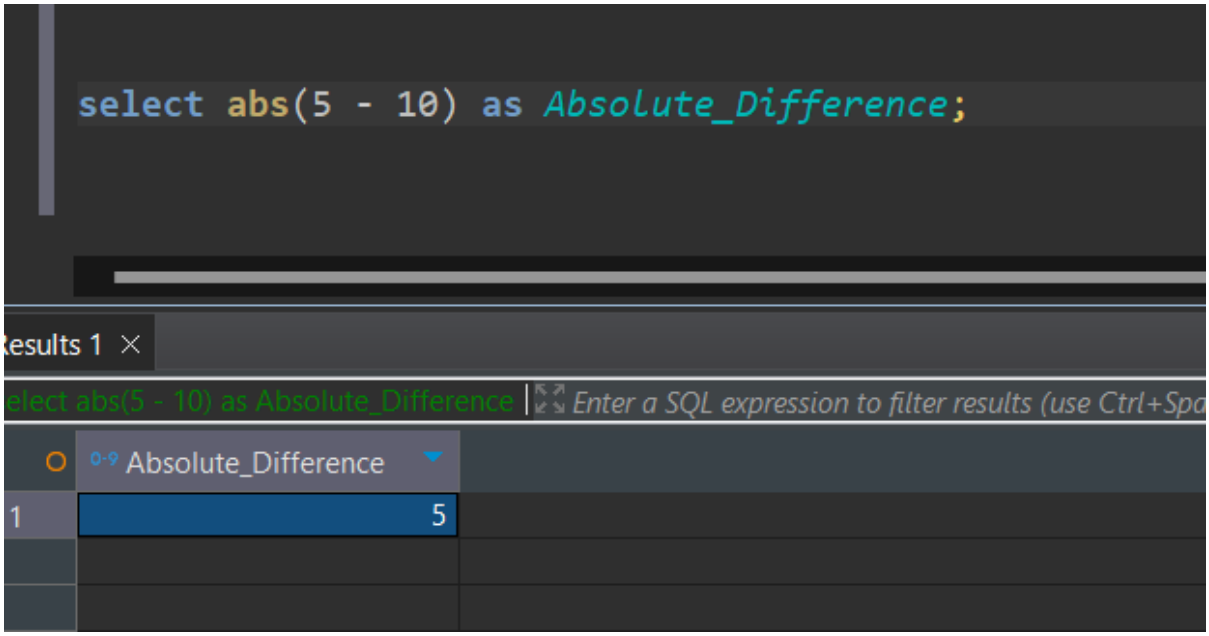
23. Write a query to find the floor of 9.7.



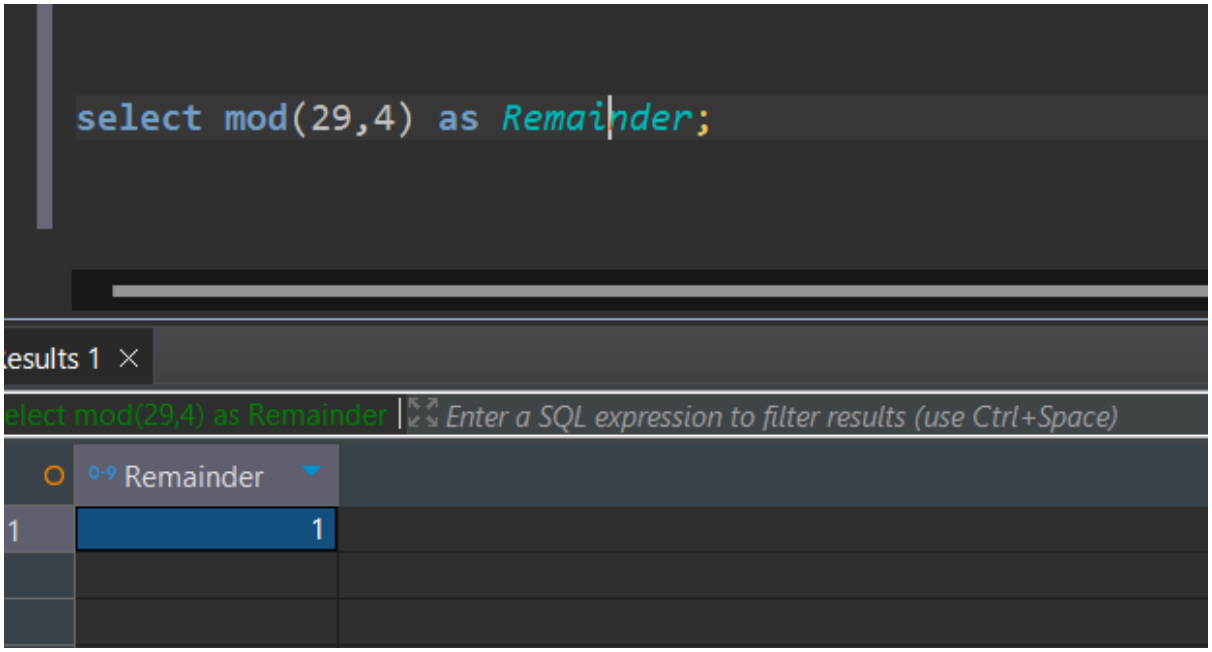
24. Write a query to find the round value of 123.456789.



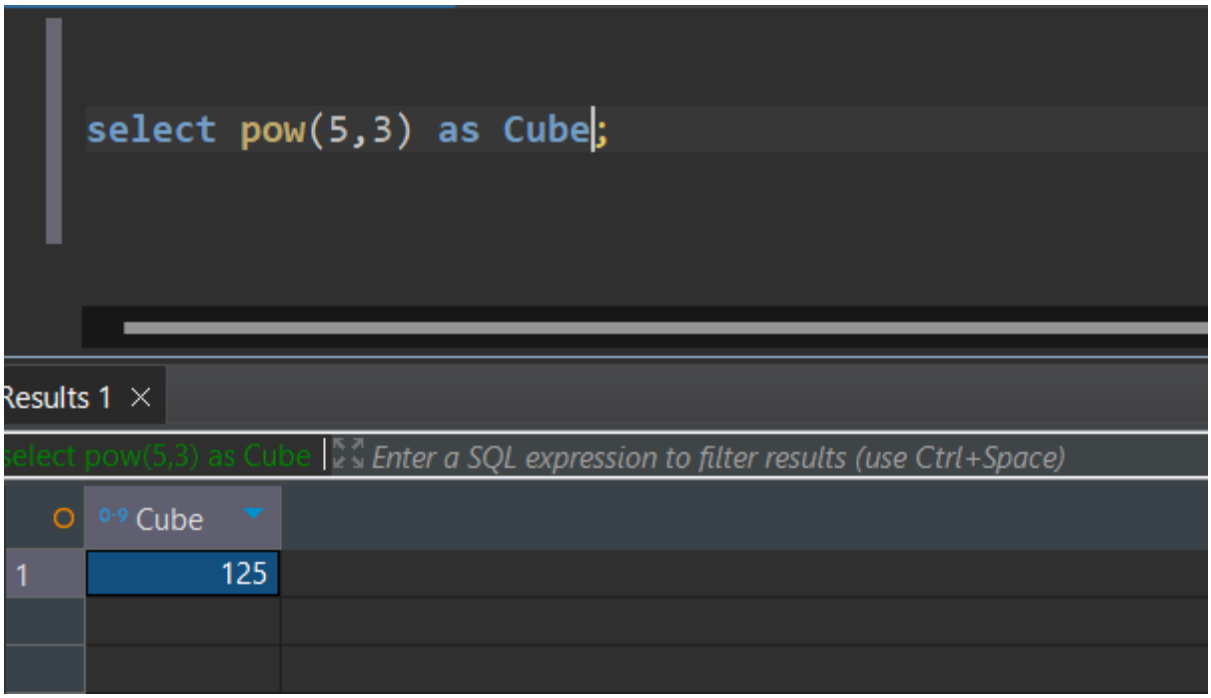
24. Write a query to find the absolute difference between two values: (5 - 10)



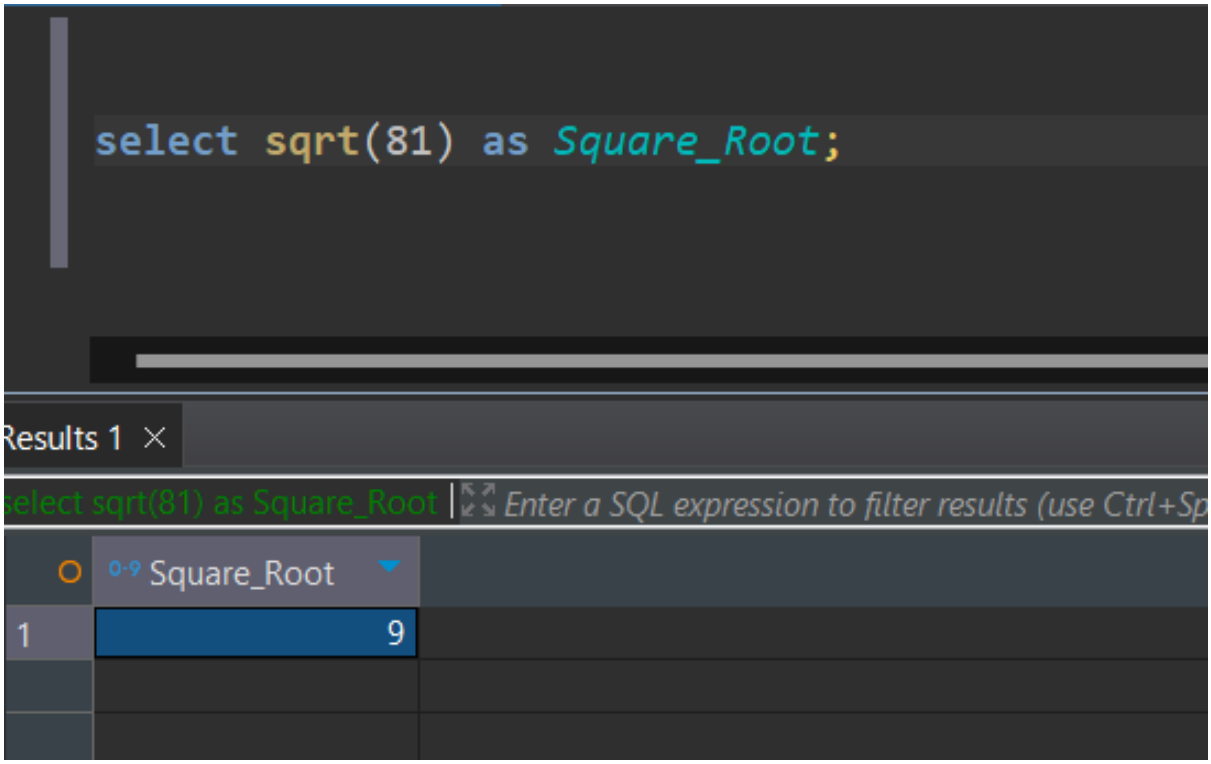
25. Find the remainder when 29 is divided by 4.



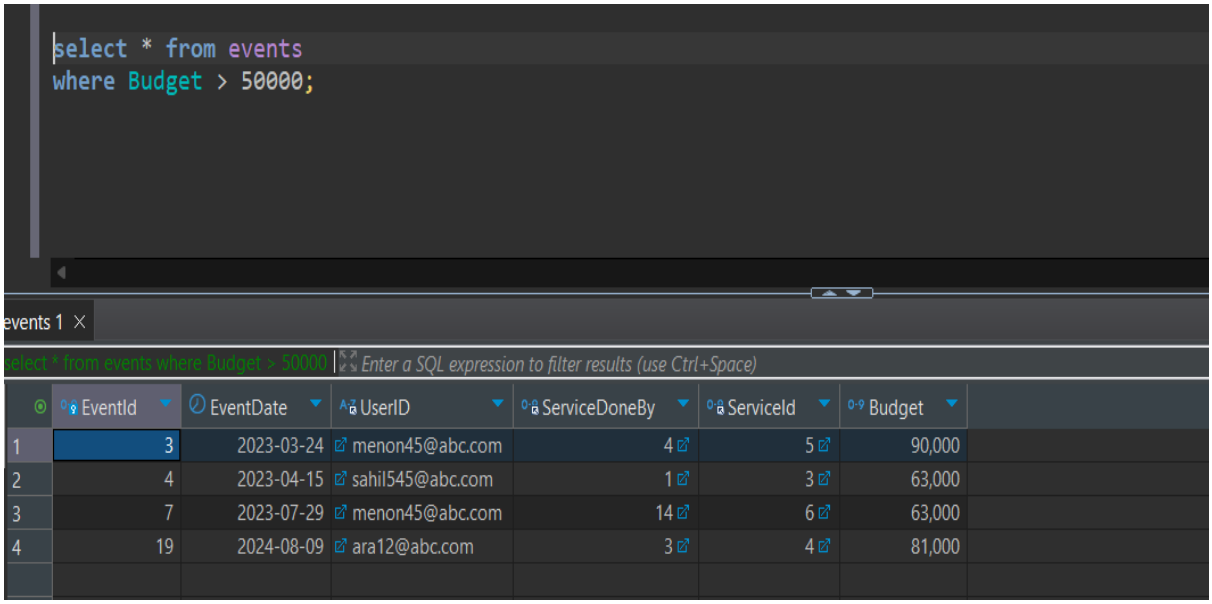
26. Calculate the cube of the number 5.



27. Write a query to find the square root of 81.



28. Write a query to display all the data from event where budget is more than 50,000.



```
select * from events
where Budget > 50000;
```

events 1

select * from events where Budget > 50000 | Enter a SQL expression to filter results (use Ctrl+Space)

	EventId	EventDate	UserID	ServiceDoneBy	ServiceId	Budget
1	3	2023-03-24	menon45@abc.com	4	5	90,000
2	4	2023-04-15	sahil545@abc.com	1	3	63,000
3	7	2023-07-29	menon45@abc.com	14	6	63,000
4	19	2024-08-09	ara12@abc.com	3	4	81,000

29. Write a query to display all the data from users where first name starts from letter ‘A’.

```
select * from users
where FirstName like 'A%';
```

users 1

select * from users where FirstName like 'A%' | Enter a SQL expression to filter results (use Ctrl+Space)

	SrNo	UserId	Password	FirstName	LastName
1	1	ara12@abc.com	A1b2C3d4	Aarav	Sharma
2	5	mehta23@abc.com	M!x3dB@	Akash	Mehta
3	10	aryan321@abc.com	9r0ck5t!	Aryan	Mahatre

30. Write a query to display first name and last name in one column, user id and password where last name starts with letter m.

```
select concat(FirstName,' ',LastName) as Fullname,
UserId as EmailId,
Password
from users u
where LastName like 'm%';
```

sers 1

elect concat(FirstName,' ',LastName) as Fullname, Use | Enter a SQL expres

	Fullname	EmailId	Password
1	Aryan Mahatre	aryan321@abc.com	9r0ck5t!
2	Akash Mehta	mehta23@abc.com	M!x3dB@
3	Isha Menon	menon45@abc.com	S@feP@55

31. Write a query to display the all data from employees of videographer whose salary is more than 15000.

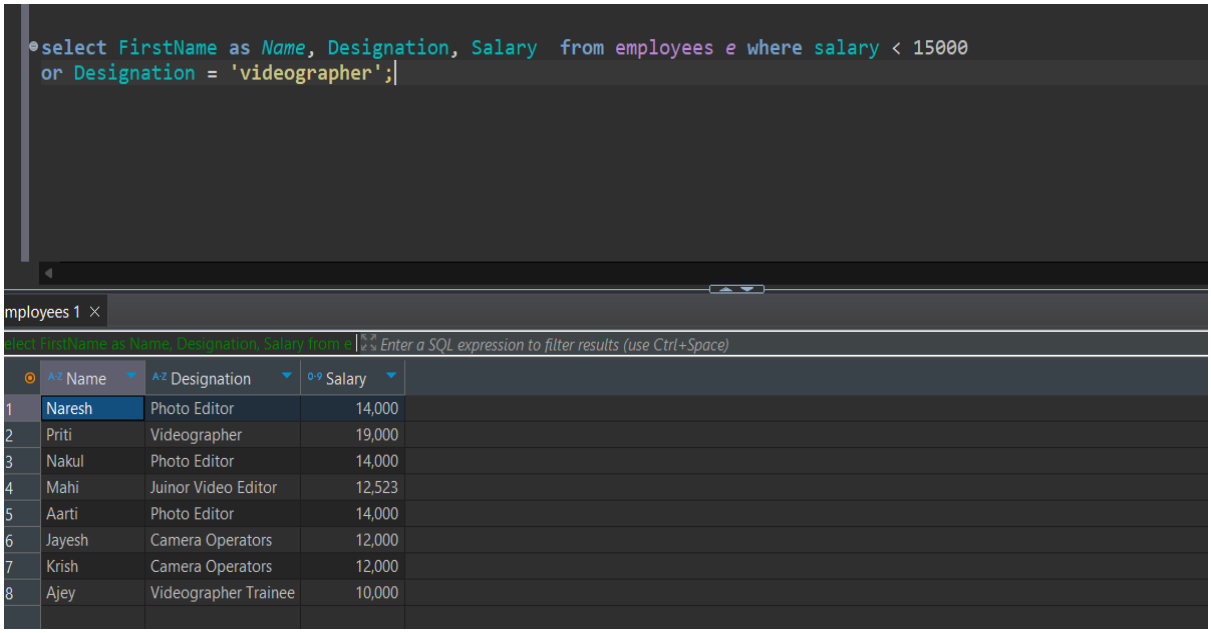
```
select * from employees e
where Salary > 15000
and Designation like '%Video%';
```

employees 1

select * from employees | Enter a SQL expression to filter results (use Ctrl+S

	EmployeeId	FirstName	LastName	Designation	Salary
1	4	Priti	Gowda	Videographer	19,000
2	10	Ayush	Deshmukh	Juinor Video Grapher	16,000

32. Write an SQL query to select the name, designation, and salary from the employees table where the salary is less than 15,000 or also designation is 'videographer'.



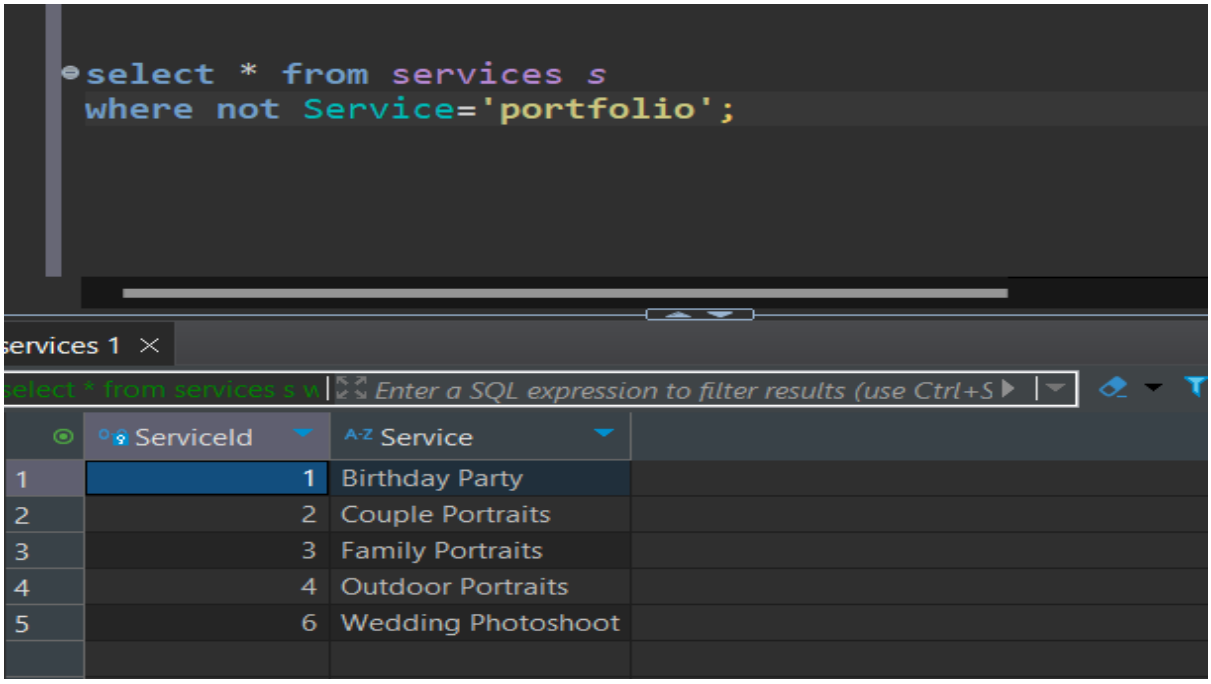
```
select FirstName as Name, Designation, Salary  from employees e where salary < 15000
or Designation = 'videographer';
```

mployees 1 ×

elect FirstName as Name, Designation, Salary from e | Enter a SQL expression to filter results (use Ctrl+Space)

	Name	Designation	Salary
1	Naresh	Photo Editor	14,000
2	Priti	Videographer	19,000
3	Nakul	Photo Editor	14,000
4	Mahi	Juinor Video Editor	12,523
5	Aarti	Photo Editor	14,000
6	Jayesh	Camera Operators	12,000
7	Krish	Camera Operators	12,000
8	Ajey	Videographer Trainee	10,000

33. Write an SQL query to select all columns from the services table except the Service is 'portfolio'.



```
select * from services s
where not Service='portfolio';
```

ervices 1 ×

elect * from services s w | Enter a SQL expression to filter results (use Ctrl+S

	ServiceId	Service
1	1	Birthday Party
2	2	Couple Portraits
3	3	Family Portraits
4	4	Outdoor Portraits
5	6	Wedding Photoshoot

34. Write a query to display the events whose budget is between 30,000 to 40,000.

```
select * from events e
where Budget between 30000 and 40000;
```

events 1

Enter a SQL expression to filter results (use Ctrl+Space)

	EventId	EventDate	UserID	ServiceDoneBy	ServiceId	Budget
1	1	2023-02-20	rajt147@abc.com	1	6	36,000
2	6	2023-06-14	bhatara@abc.com	9	3	35,000
3	13	2024-02-04	sitaven@abc.com	1	1	32,000
4	18	2024-07-09	aryan321@abc.com	4	5	32,000

35. Write a query to display the highest salary for each designation in the employee's table.

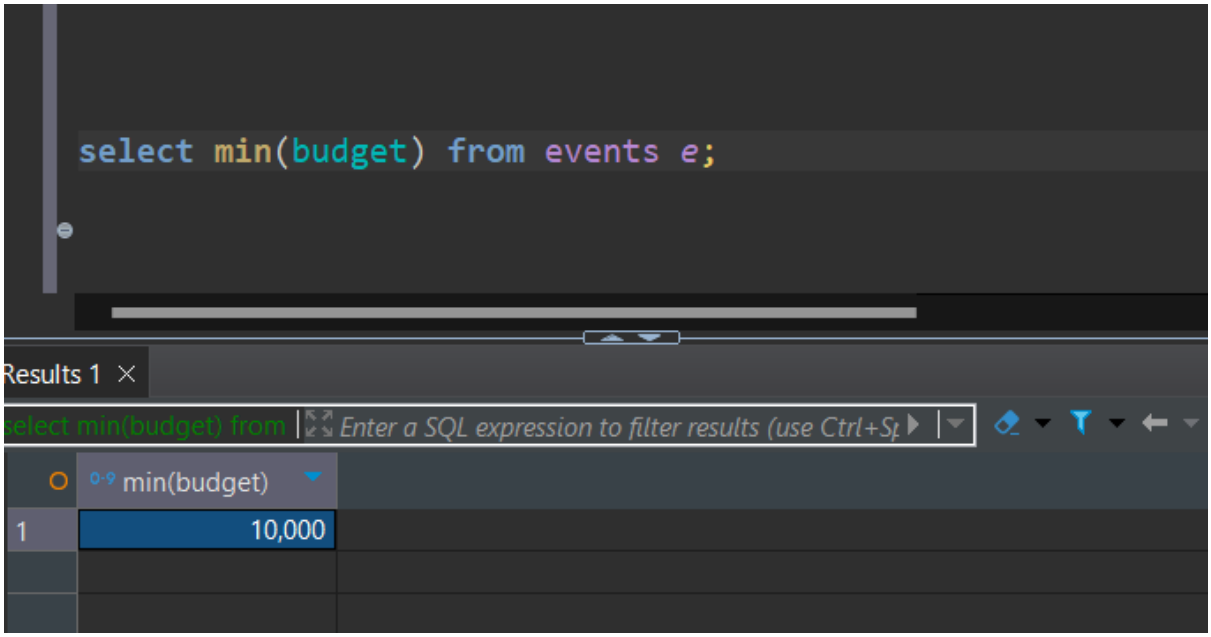
```
select Designation, max(salary) from employees e
group by Designation order by Salary desc;
```

employees 1

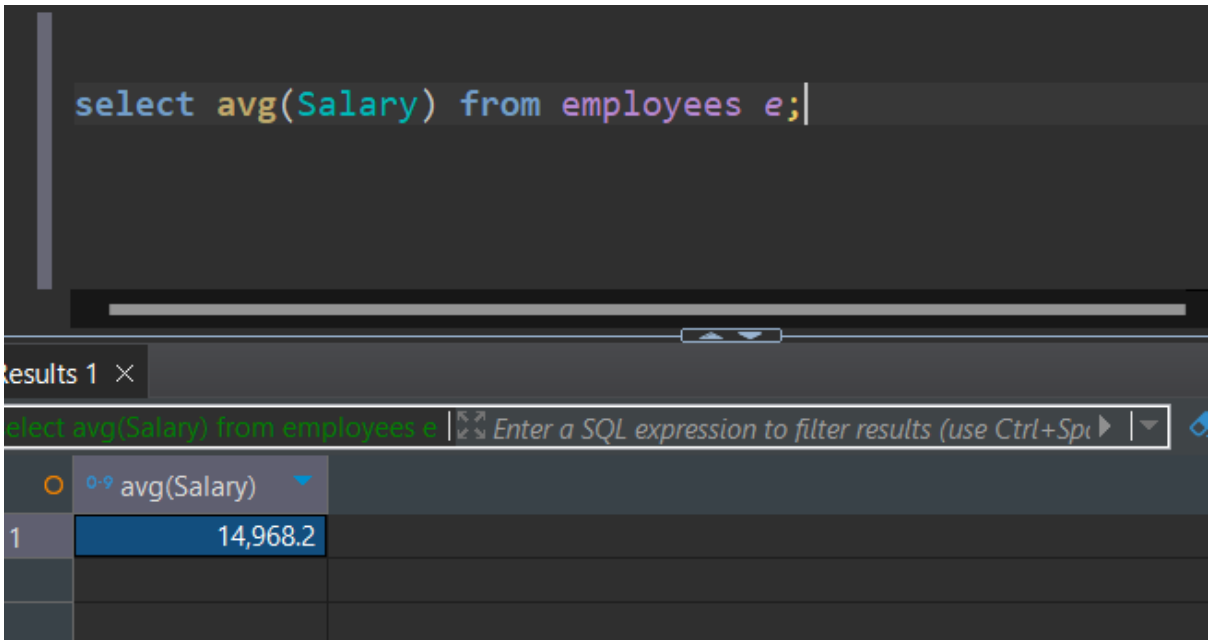
Enter a SQL expression to filter results (use Ctrl+Sp

	Designation	max(salary)
1	Videographer	19,000
2	Events Photographer	18,000
3	Portrait Photographer	16,000
4	Juinor Video Grapher	16,000
5	Video Editor	15,000
6	Photo Editor	14,000
7	Juinor Video Editor	12,523
8	Camera Operators	12,000
9	Videographer Trainee	10,000

36. Write a query to display the minimum budget from event.



37. Write a query to calculate the average salary from the employee's table.



38. Write a query to find the budget and corresponding month for events that occurred in March, June, or September.

```
select budget, month(EventDate) as 'Months' from events e
where month(EventDate) in (3,6,9);
```

vents 1

Enter a SQL expression to filter results (use Ctrl+Sp

	budget	Months
1	50,000	3
2	90,000	3
3	42,000	6
4	35,000	6
5	12,000	6

39. Write an SQL query to retrieve all columns from the employees table for employees whose designation is not 'Photo Editor', ‘Videographer’, ‘Portrait Photographer’.

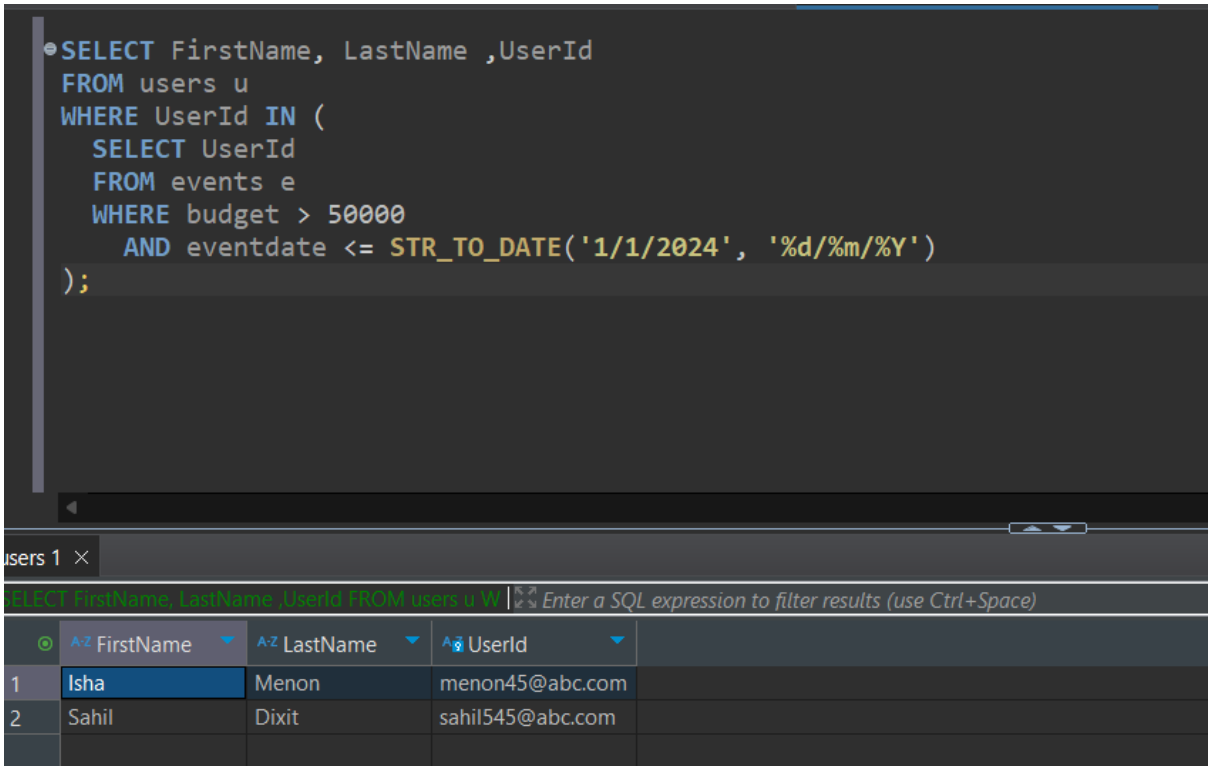
```
select * from employees e
where Designation
not in ('Photo Editor','Videographer','Portrait Photographer');
```

mployees 1

Enter a SQL expression to filter results (use Ctrl+Space)

	EmployeeId	FirstName	LastName	Designation	Salary
1	3	Rahul	Shah	Events Photographer	18,000
2	5	Ajey	Patel	Video Editor	15,000
3	8	Mahi	Patil	Juinor Video Editor	12,523
4	9	Janvhi	Patil	Events Photographer	18,000
5	10	Ayush	Deshmukh	Juinor Video Grapher	16,000
6	12	Jayesh	Patel	Camera Operators	12,000
7	13	Krish	Kulkarni	Camera Operators	12,000
8	14	Rahul	Sharma	Events Photographer	18,000
9	15	Ajey	Naik	Videographer Trainee	10,000

40. Write a query of all users who are associated with events that have a budget over 50,000 and are scheduled on or before January 1, 2024.



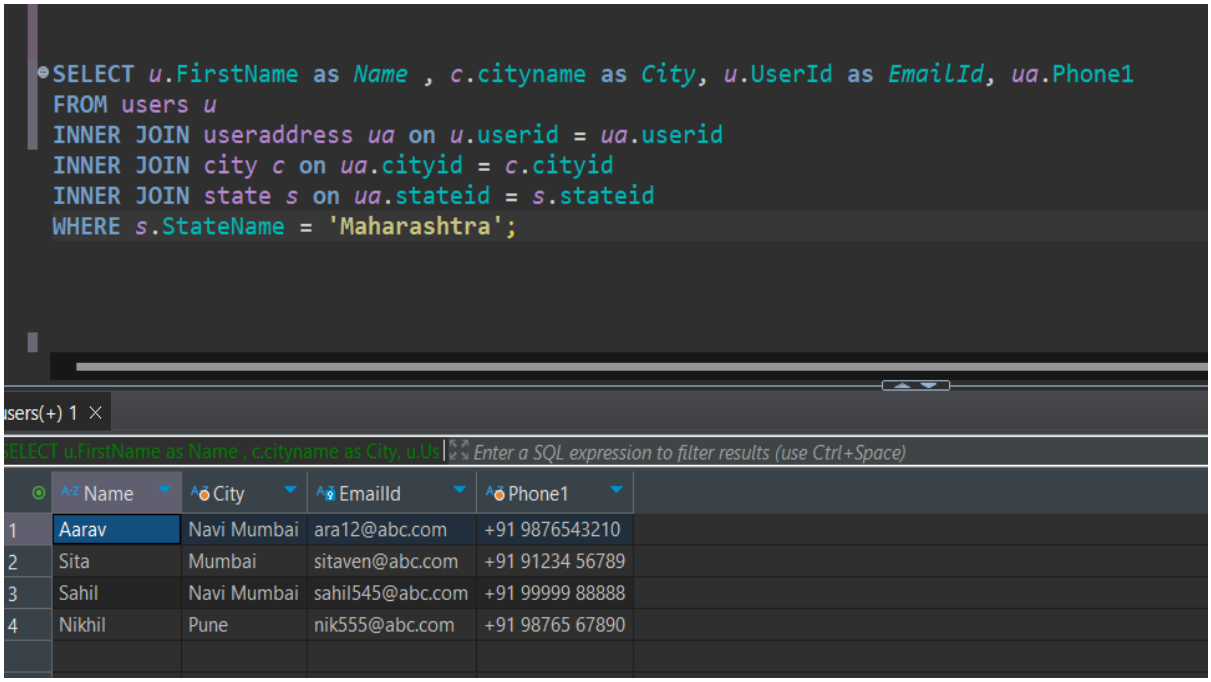
```sql
SELECT FirstName, LastName ,UserId
FROM users u
WHERE UserId IN (
  SELECT UserId
  FROM events e
  WHERE budget > 50000
    AND eventdate <= STR_TO_DATE('1/1/2024', '%d/%m/%Y')
);
```

sers 1

Enter a SQL expression to filter results (use Ctrl+Space)

	FirstName	LastName	UserId
1	Isha	Menon	menon45@abc.com
2	Sahil	Dixit	sahil545@abc.com

41. Write a query to retrieve of users who are located in the state of 'Maharashtra using inner join.



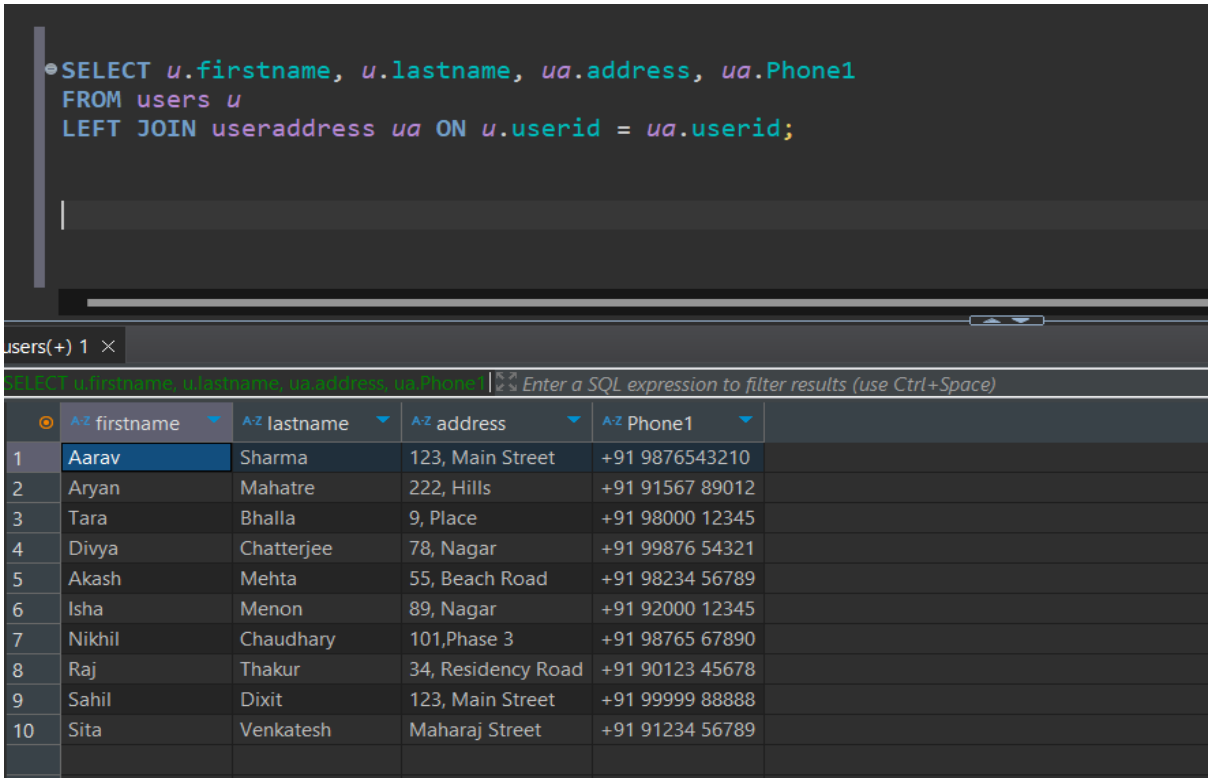
```sql
SELECT u.FirstName as Name , c.cityname as City, u.UserId as EmailId, ua.Phone1
FROM users u
INNER JOIN useraddress ua on u.userid = ua.userid
INNER JOIN city c on ua.cityid = c.cityid
INNER JOIN state s on ua.stateid = s.stateid
WHERE s.StateName = 'Maharashtra';
```

sers(+) 1

Enter a SQL expression to filter results (use Ctrl+Space)

	Name	City	EmailId	Phone1
1	Aarav	Navi Mumbai	ara12@abc.com	+91 9876543210
2	Sita	Mumbai	sitaven@abc.com	+91 91234 56789
3	Sahil	Navi Mumbai	sahil545@abc.com	+91 99999 88888
4	Nikhil	Pune	nik555@abc.com	+91 98765 67890

42. Write a query to list each user's first name, last name, address, and phone number, including users who do not have an address or phone number recorded.



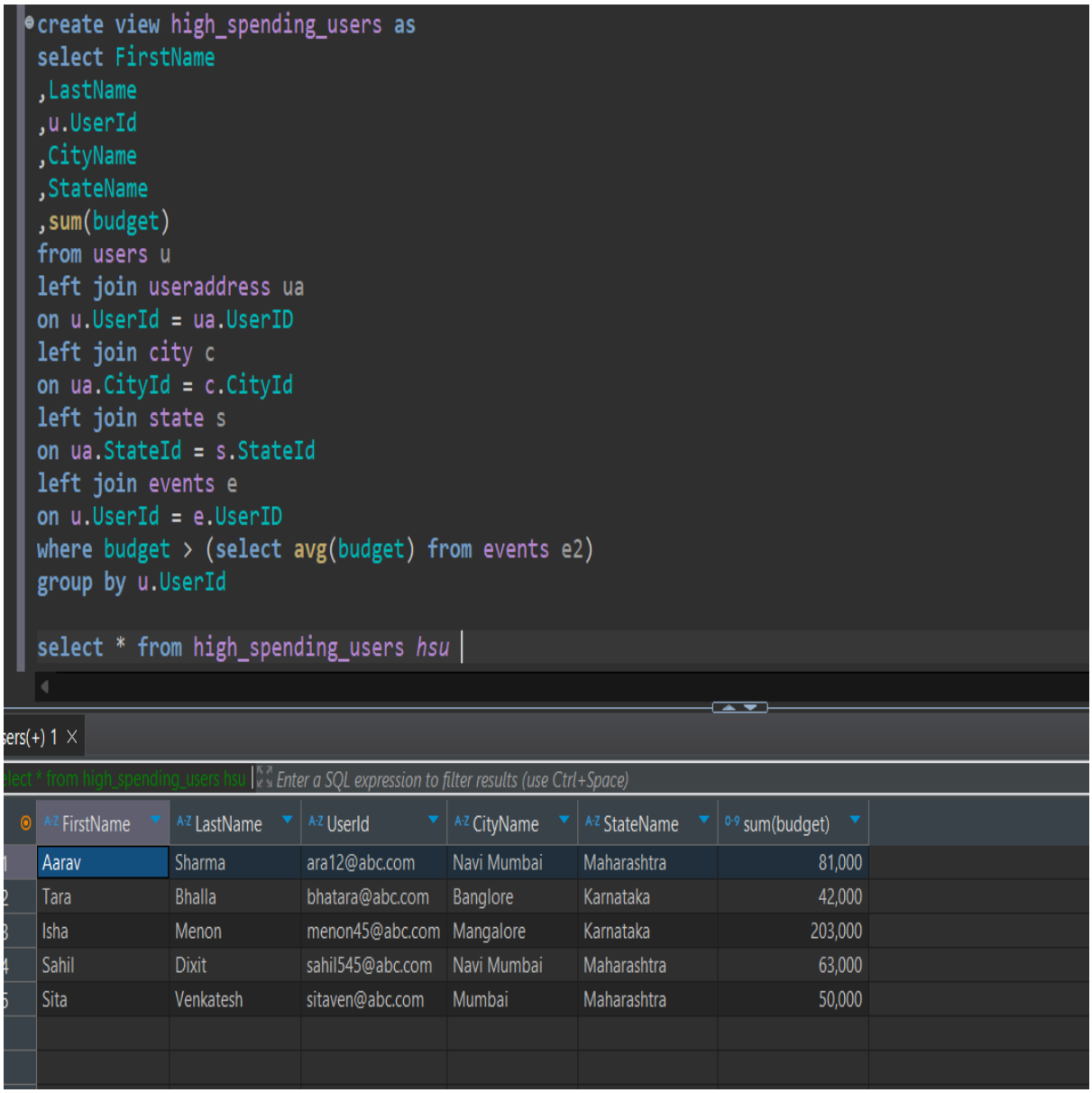
```sql
SELECT u.firstname, u.lastname, ua.address, ua.Phone1
FROM users u
LEFT JOIN useraddress ua ON u.userid = ua.userid;
```

users(+) 1

SELECT u.firstname, u.lastname, ua.address, ua.Phone1 | Enter a SQL expression to filter results (use Ctrl+Space)

	firstname	lastname	address	Phone1
1	Aarav	Sharma	123, Main Street	+91 9876543210
2	Aryan	Mahatre	222, Hills	+91 91567 89012
3	Tara	Bhalla	9, Place	+91 98000 12345
4	Divya	Chatterjee	78, Nagar	+91 99876 54321
5	Akash	Mehta	55, Beach Road	+91 98234 56789
6	Isha	Menon	89, Nagar	+91 92000 12345
7	Nikhil	Chaudhary	101,Phase 3	+91 98765 67890
8	Raj	Thakur	34, Residency Road	+91 90123 45678
9	Sahil	Dixit	123, Main Street	+91 99999 88888
10	Sita	Venkatesh	Maharaj Street	+91 91234 56789

43. Create a view named high_spending_users that lists users who have a total budget greater than the average budget of all events, including their first name, last name, user ID, city name, and state name. Then, retrieve all records from this view.



```
create view high_spending_users as
select FirstName
,LastName
,u.UserId
,CityName
,StateName
,sum(budget)
from users u
left join useraddress ua
on u.UserId = ua.UserID
left join city c
on ua.CityId = c.CityId
left join state s
on ua.StateId = s.StateId
left join events e
on u.UserId = e.UserID
where budget > (select avg(budget) from events e2)
group by u.UserId

select * from high_spending_users hsu
```

sers(+) 1

lect * from high_spending_users hsu | Enter a SQL expression to filter results (use Ctrl+Space)

	FirstName	LastName	UserId	CityName	StateName	sum(budget)
1	Aarav	Sharma	ara12@abc.com	Navi Mumbai	Maharashtra	81,000
2	Tara	Bhalla	bhatara@abc.com	Banglore	Karnataka	42,000
3	Isha	Menon	menon45@abc.com	Mangalore	Karnataka	203,000
4	Sahil	Dixit	sahil545@abc.com	Navi Mumbai	Maharashtra	63,000
5	Sita	Venkatesh	sitaven@abc.com	Mumbai	Maharashtra	50,000