Marwadi University Marwadi Chandarana Group NAAC A+	**Marwadi University** **Faculty of Engineering & Technology** **Department of Information and Communication Technology**	
Subject: ADB(01CT0725)	**Aim: DML Commands and Queries**	
Experiment No: 03	**Date:**	**Enrollment No:92200133026**

Practical 3

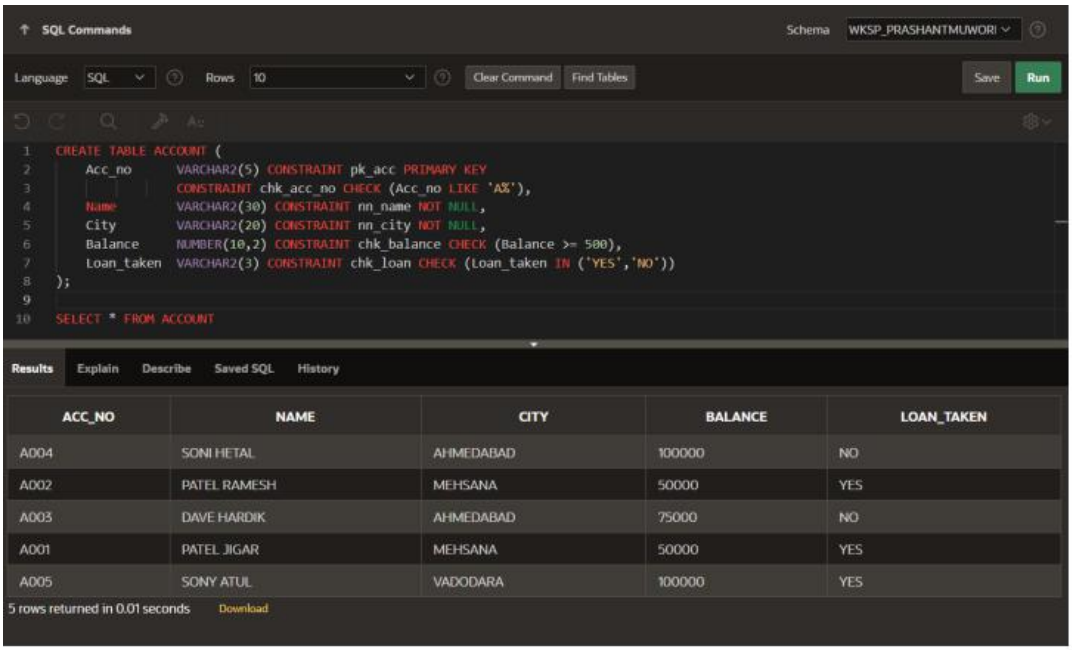
Aim: Constraint Based DML Commands

<u>Note:</u> Bold and Underline column name indicates a primary key

Create a table **ACCOUNT**.

Column name	Data Type	Size	Attributes
<u>Acc_no</u>	Varchar2	5	Primary key/first letter must start with 'A'
Name	Varchar2	30	NOT NULL
City	Varchar2	20	NOT NULL
Balance	Number	10,2	Balance >=500
Loan_taken	Varchar2	3	Values('NO','YES')

1. Insert the records using Practical list 1.



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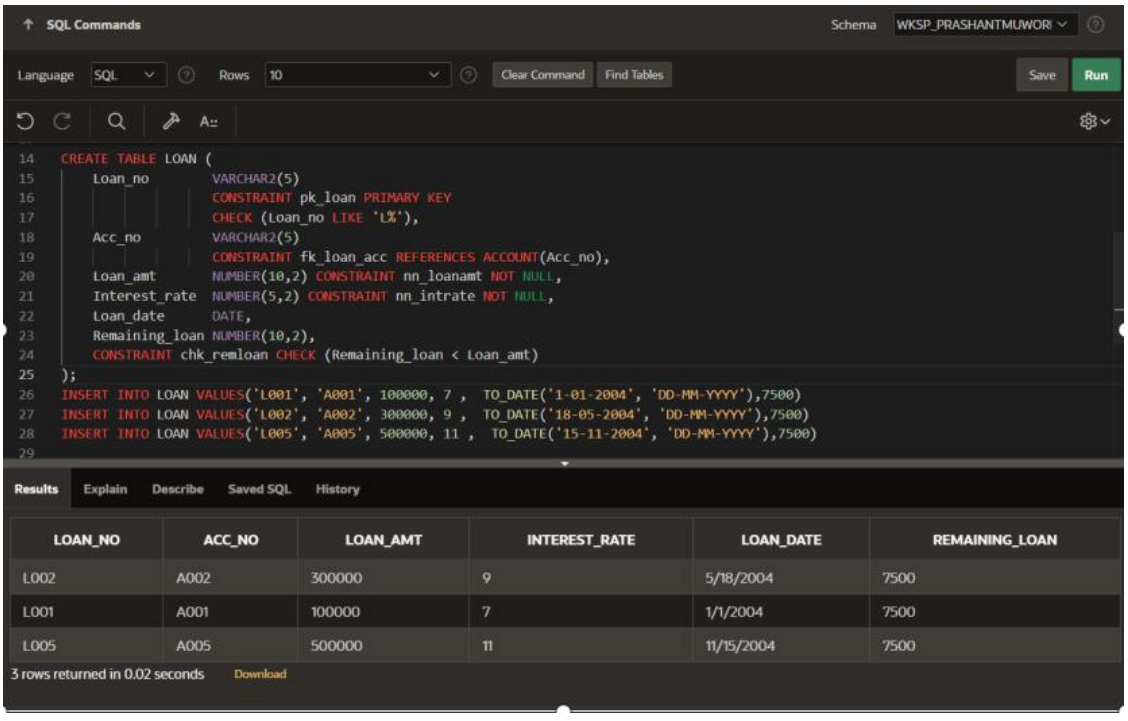
Create a Table **LOAN**.

Column Name	Data Type	Size	Attributes
Loan_no	Varchar2	5	Primary Key / first letter must start with 'L'
Acc_no	Varchar2	5	Foreign key References Acc_no of account table
Loan_amt	Number	10,2	NOT NULL
Interest_rate	Number	5,2	NOT NULL
Loan_date	Date		
Remaining_loan	Number	10,2	Remaining loan<loan amount

1. Insert the records using practical list-1.



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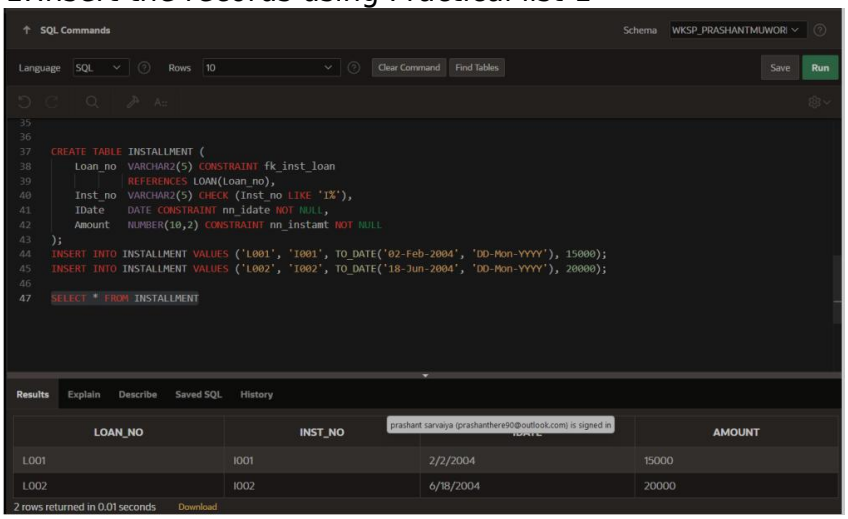
Create a table **INSTALLMENT**.

Column Name	Data Type	Size	Attributes
Loan_no	Varchar2	5	Foreign key References Loan_no of Loan table
Inst_no	Varchar2	5	first letter must start with 'I'
IDate	Date		NOT NULL
Amount	Number	10,2	NOT NULL

1. Insert the records using Practical list-1



Create a Table **TRANSACTION**.

Column Name	Data Type	Size	Attributes
Acc_no	Varchar2	5	Foreign key References Acc_no of account table
Trans_Date	Date		NOT NULL
Amt	Number	10,2	NOT NULL
Type_of_tr	Char	1	Values in ('D','W')

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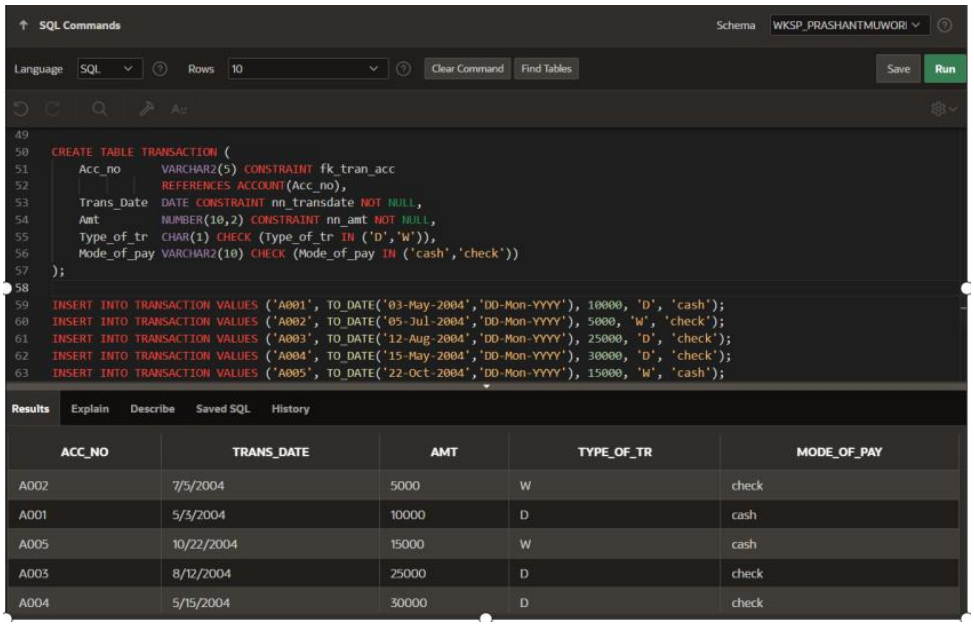
Mode_of_pay	Varchar2	10	Values in (‘cash’,’check’)

1. Insert the records using Practical list-1.



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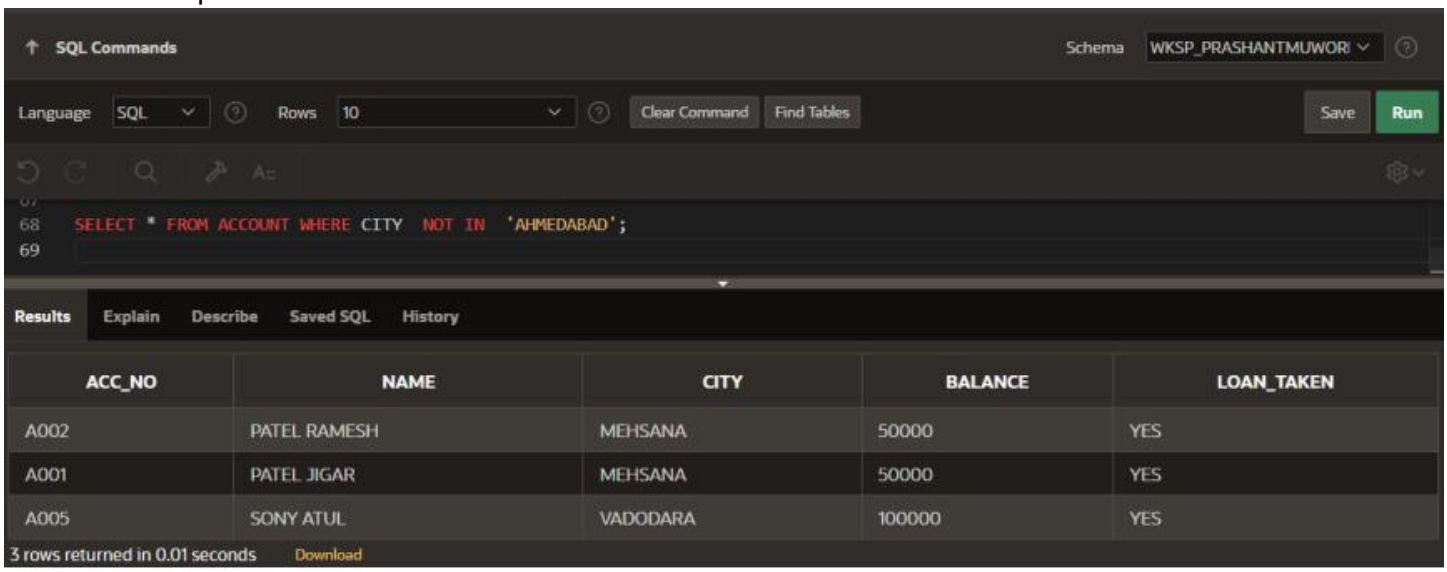
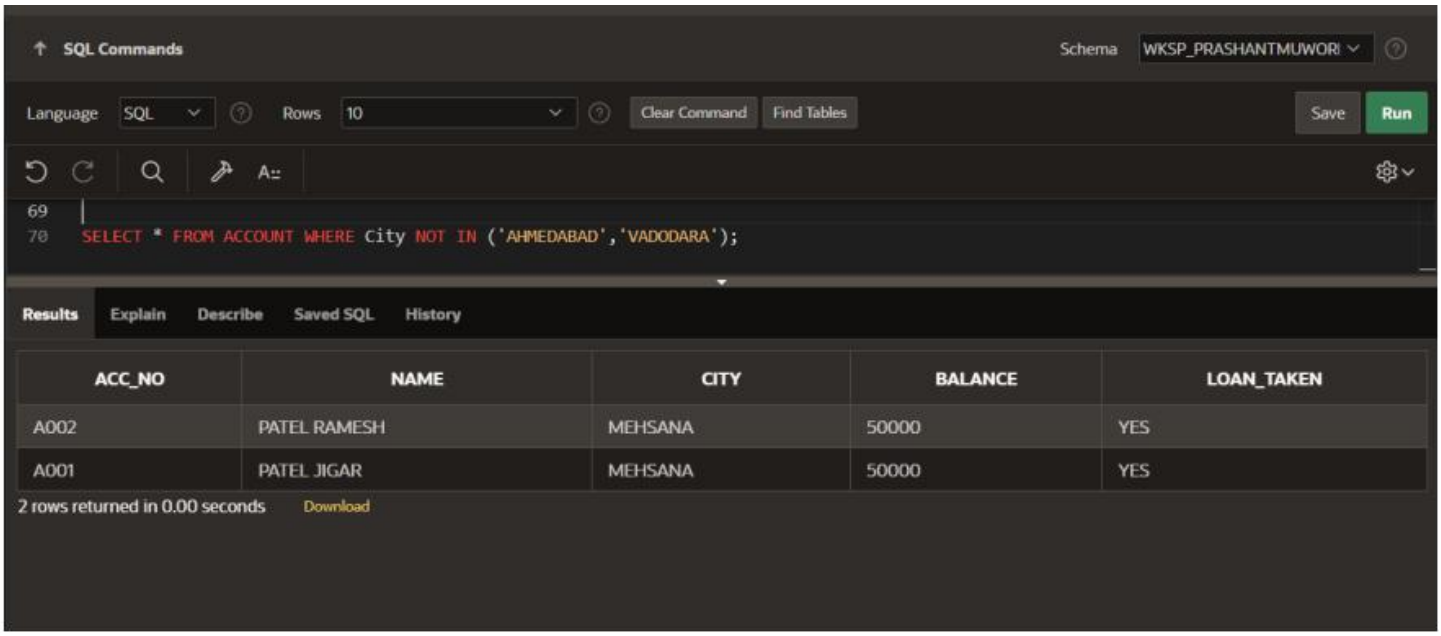
Aim: Functions and Queries

Using Operator: NOT,BETWEEN,NOT BETWEEN,IN,NOT IN

1. Retrieve specified information for the account holder who are not in 'Ahmedabad'.



2. Retrieve specified information for the account holder who are not in 'Ahmedabad' or 'Vadodara'.



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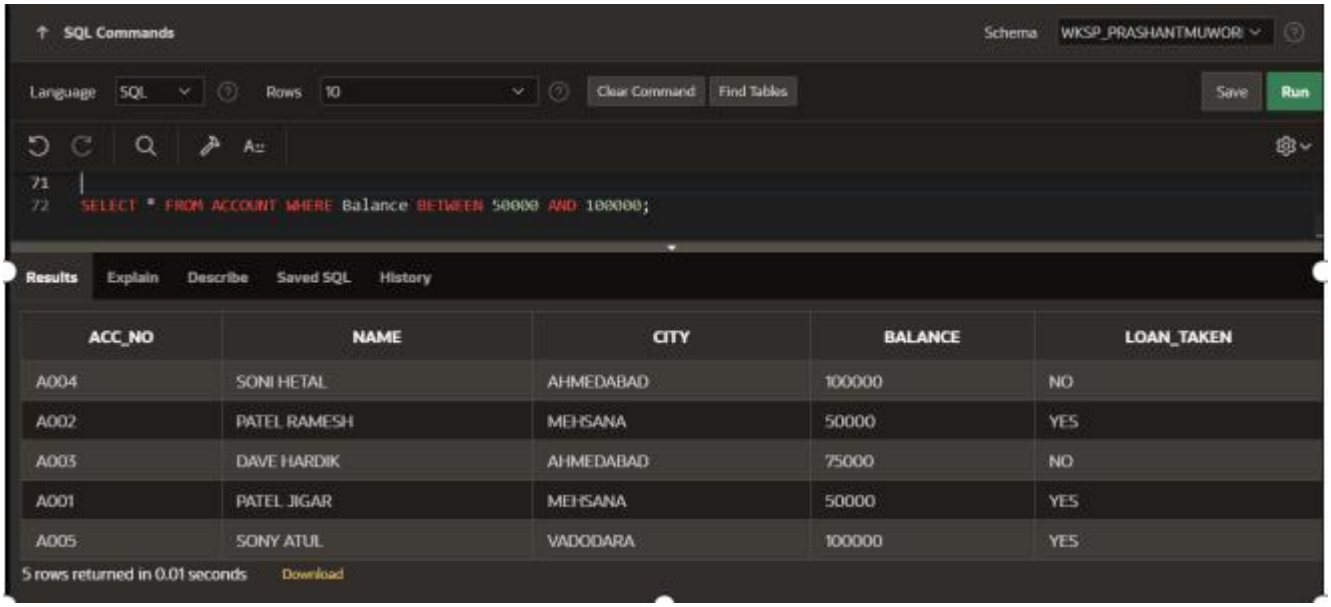
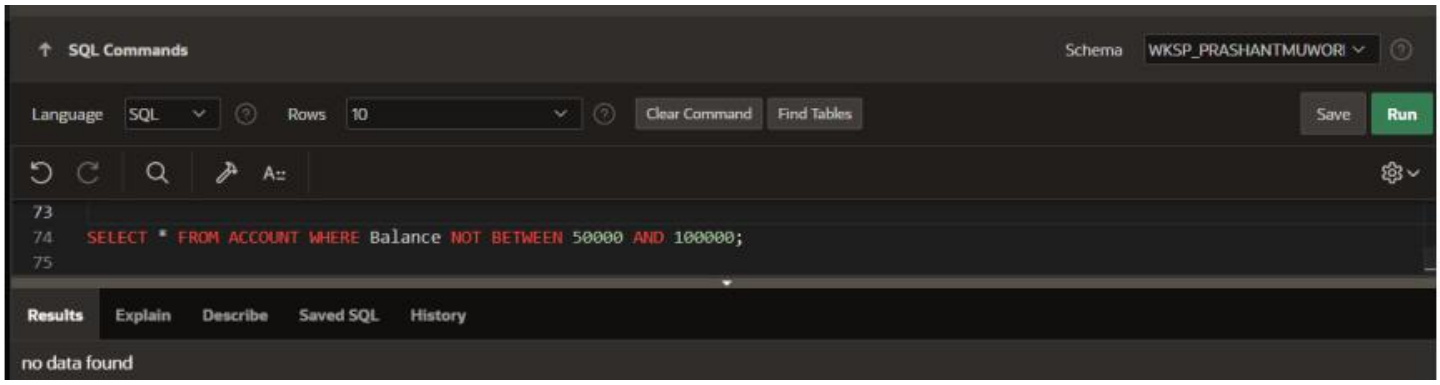
3. Retrieve those records of Account holder whose balance between is 50000 and 100000



4. Retrieve those records of Account holder whose balance not between is 50000 and 100000.



5. Display only those records whose amount is 5000, 25000, 30000.

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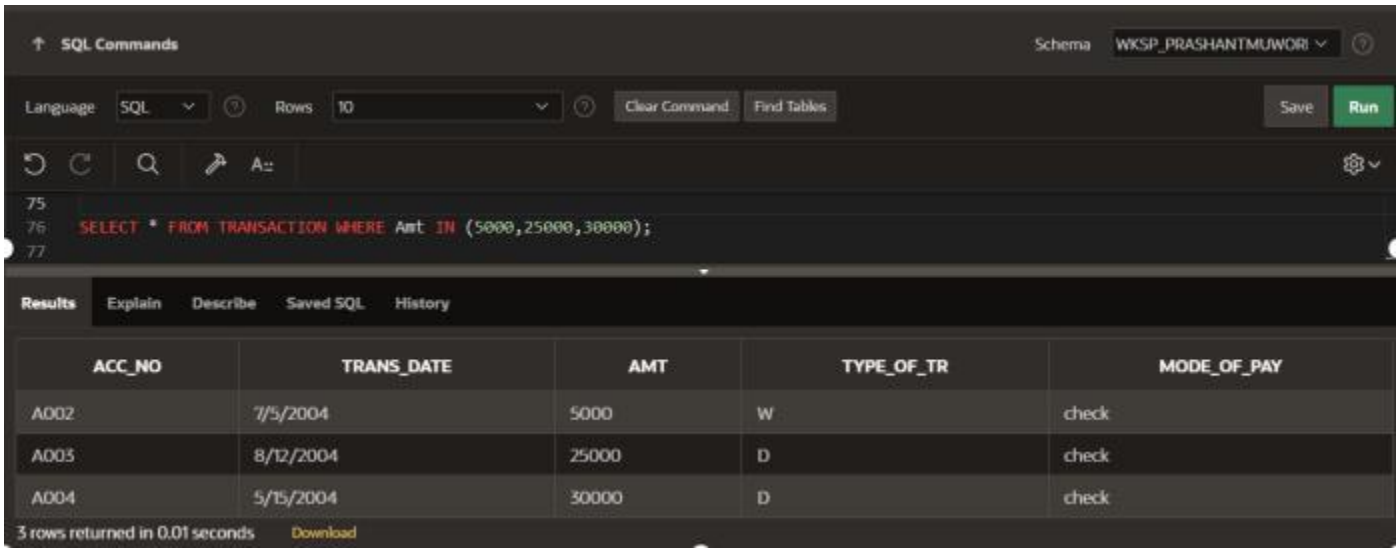
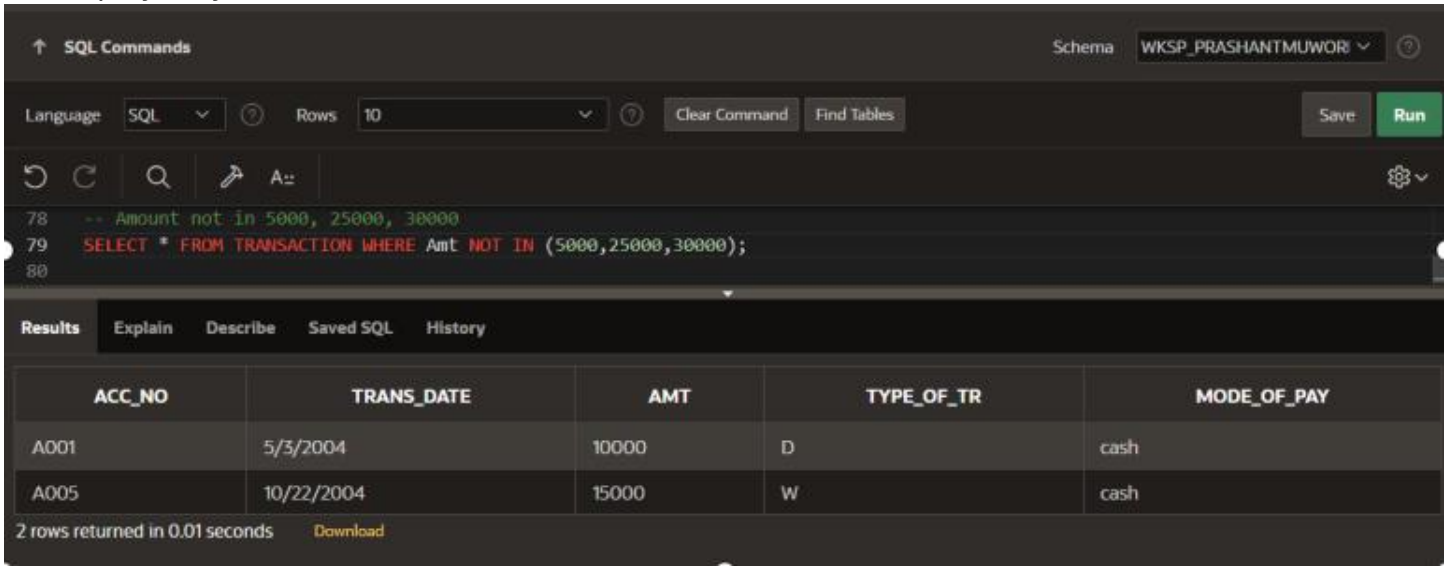
Subject: ADB(01CT0725)	**Aim: DML Commands and Queries**	
Experiment No: 03	**Date:**	**Enrollment No:92200133026**



6. Display only those records whose amount not in 5000, 25000, 30000.



7. Display System date.

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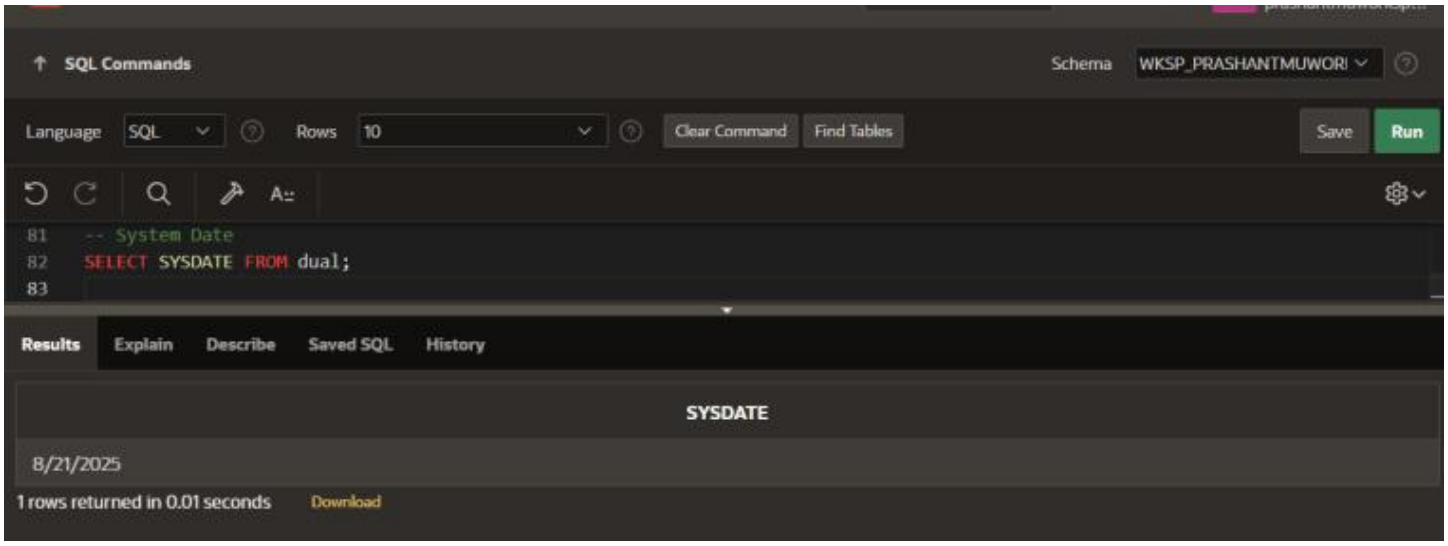
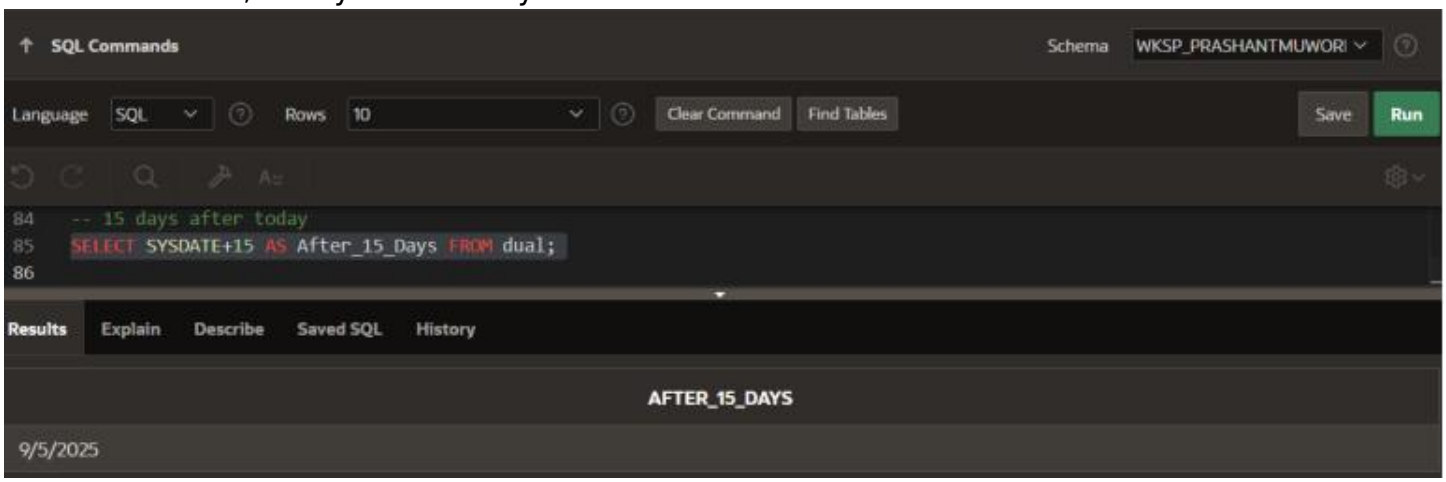
Subject: ADB(01CT0725)	**Aim: DML Commands and Queries**	
Experiment No: 03	**Date:**	**Enrollment No:92200133026**



8. Find the date,15 days after today's date.



9. Perform following operation using DUAL table.
   5*5,34+34,1000/300,length of 'uvpce',display only month of systemdate

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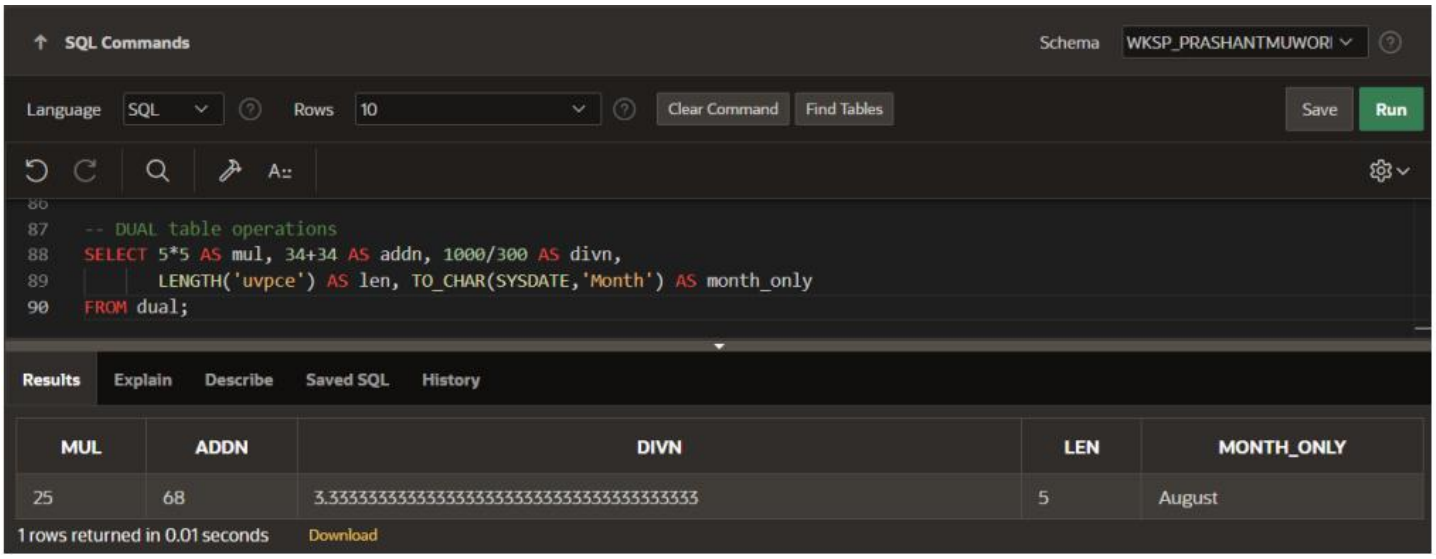
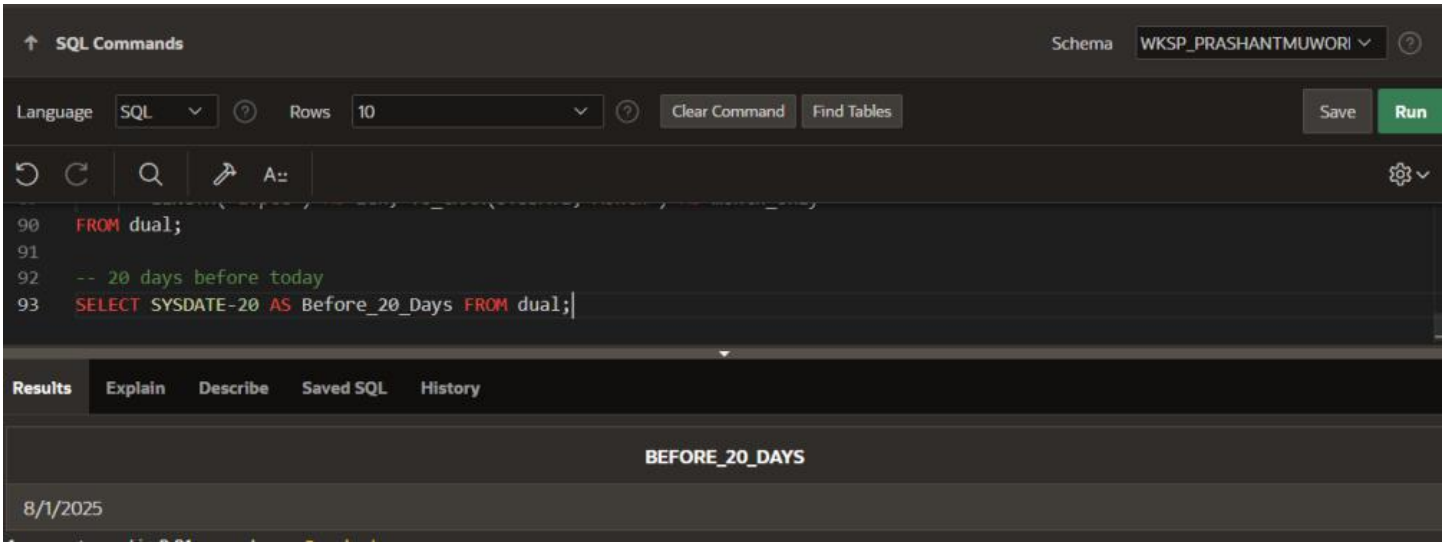
Experiment No: 03	**Date:**	**Enrollment No:92200133026**



10. Find the date,20 days before today's date.



Function Based Queries.

1. Find the total transaction amount of account holder from transaction table.

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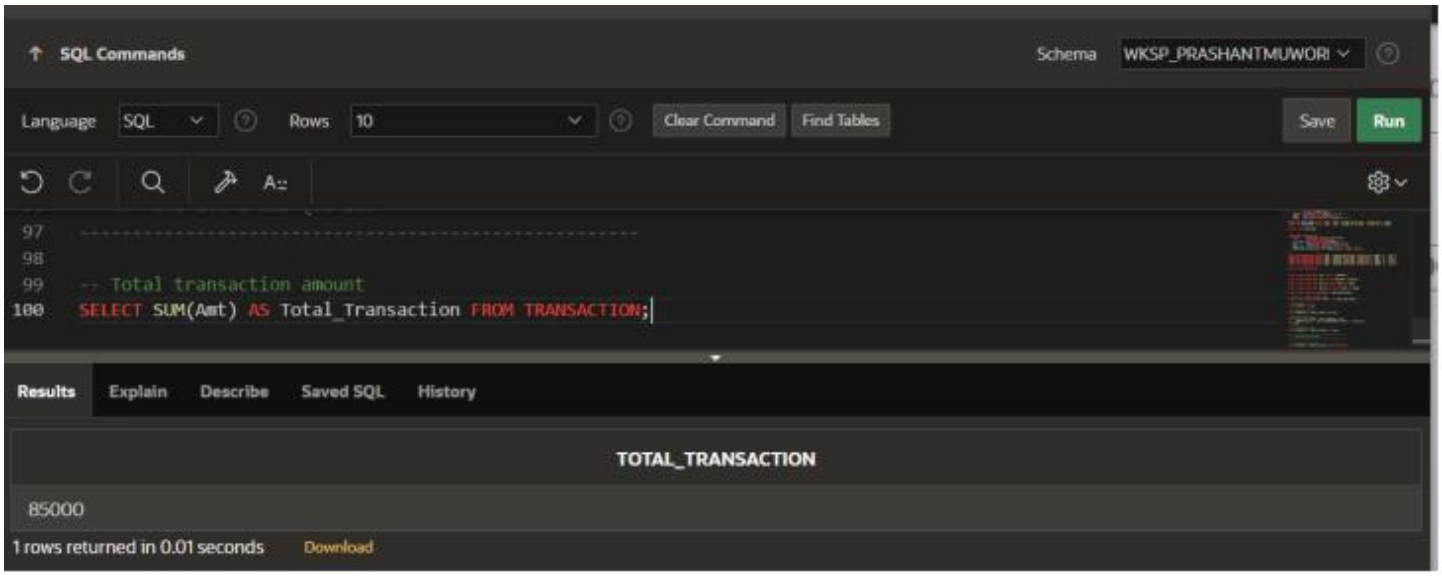
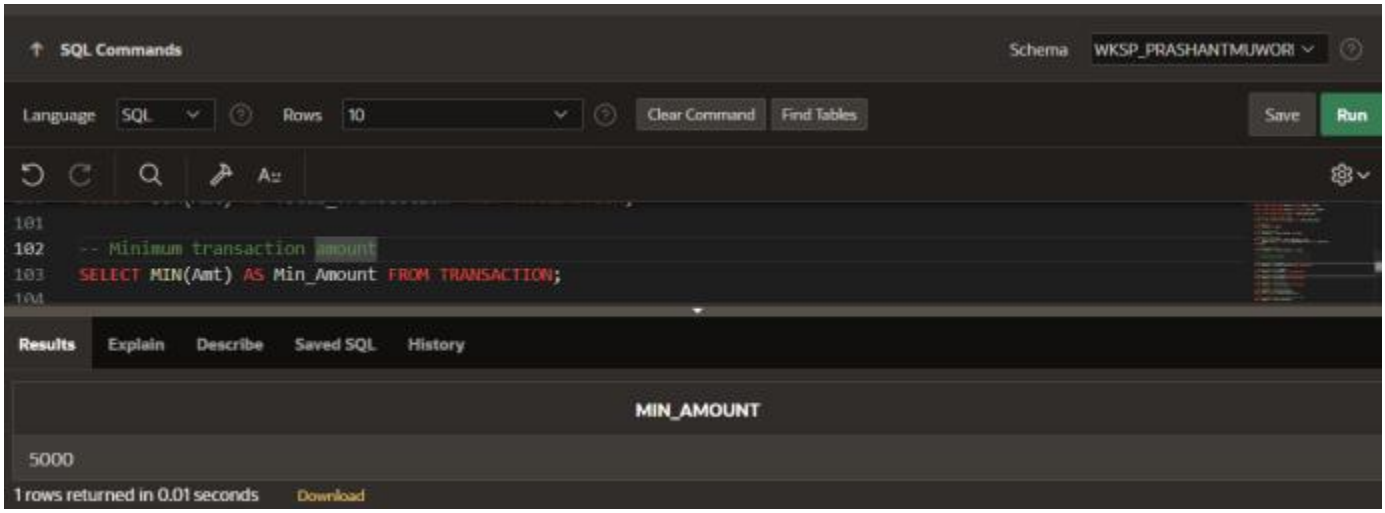
Subject: ADB(01CT0725)	**Aim: DML Commands and Queries**	
Experiment No: 03	**Date:**	**Enrollment No:92200133026**



2. Find minimum amount of transaction.



3. Find maximum amount of transaction.

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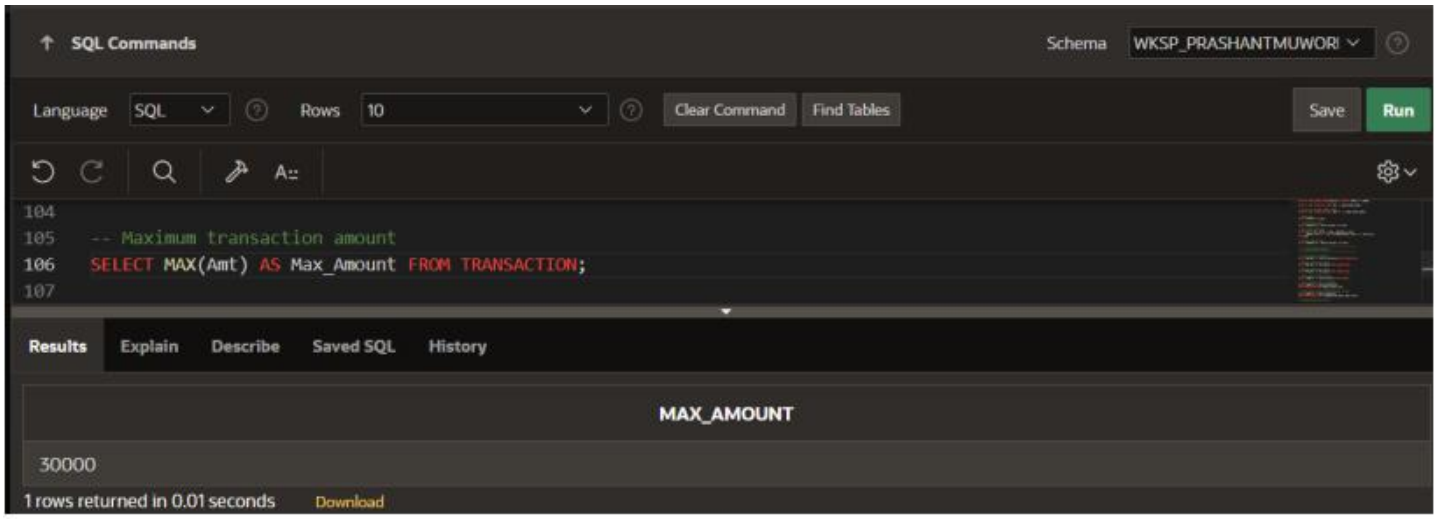
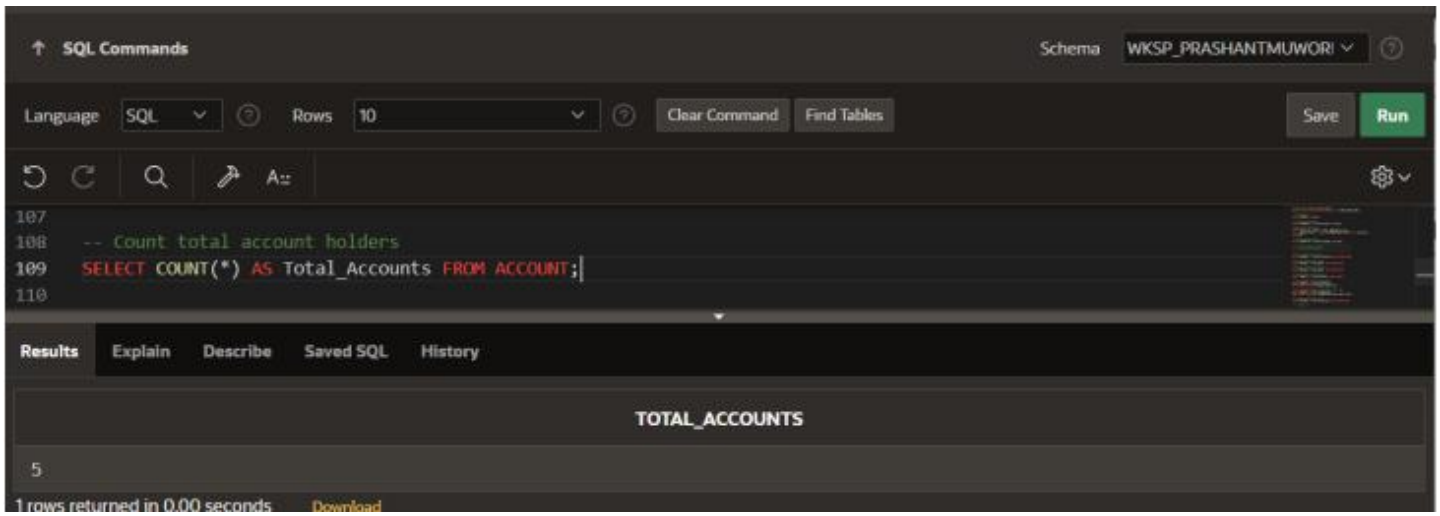
Subject: ADB(01CT0725)	**Aim: DML Commands and Queries**	
Experiment No: 03	**Date:**	**Enrollment No:92200133026**



4. Count the total account holders.



5. Count only those records whose made of payment is ‘cash’.

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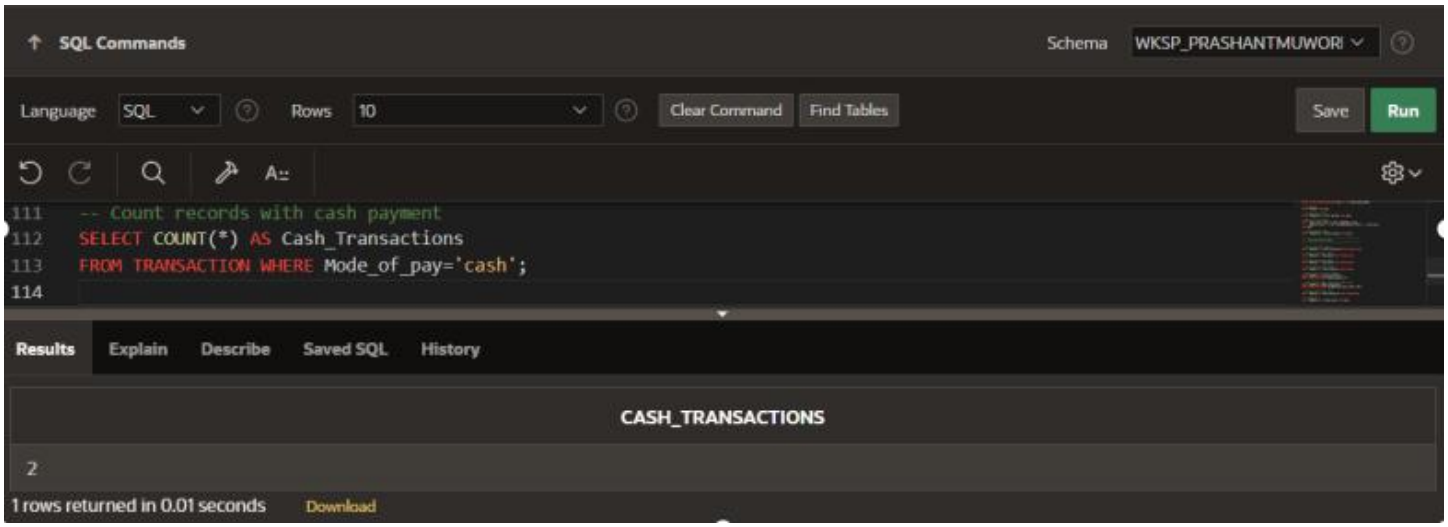
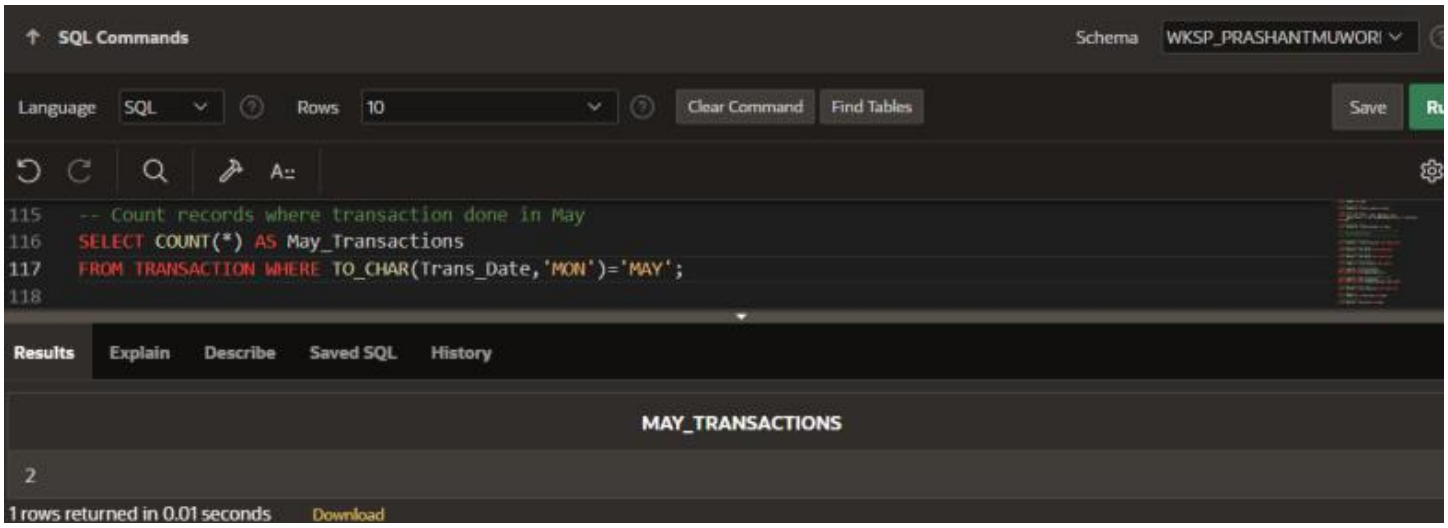
Experiment No: 03	**Date:**	**Enrollment No:92200133026**



6. Count only those records whose transaction made in the month of ‘MAY’.



7. Find the average value of transaction.

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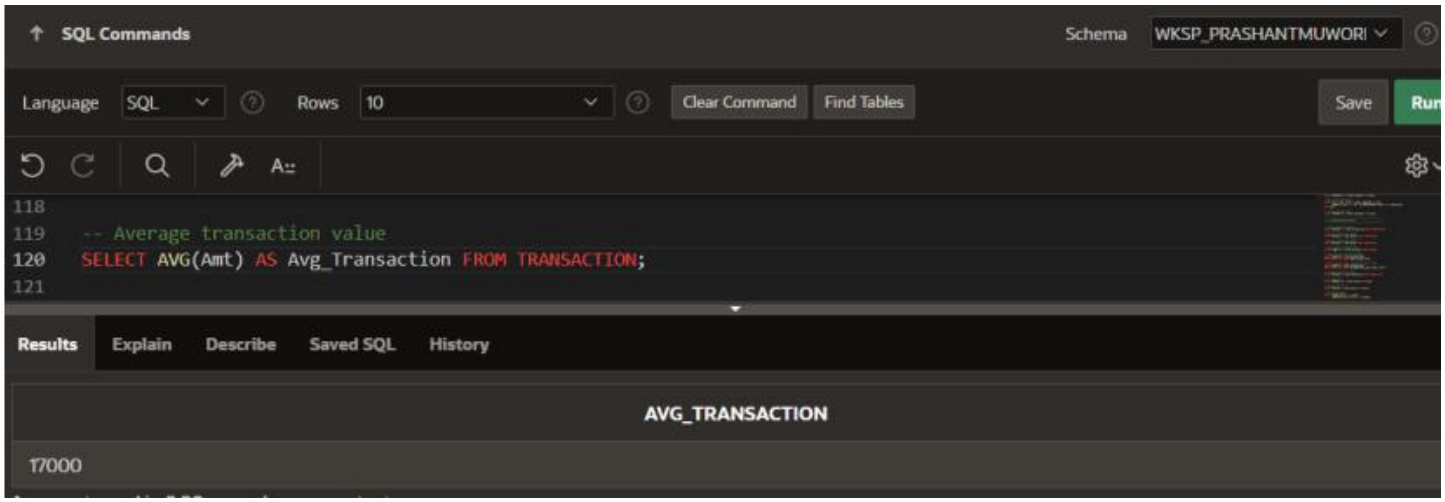
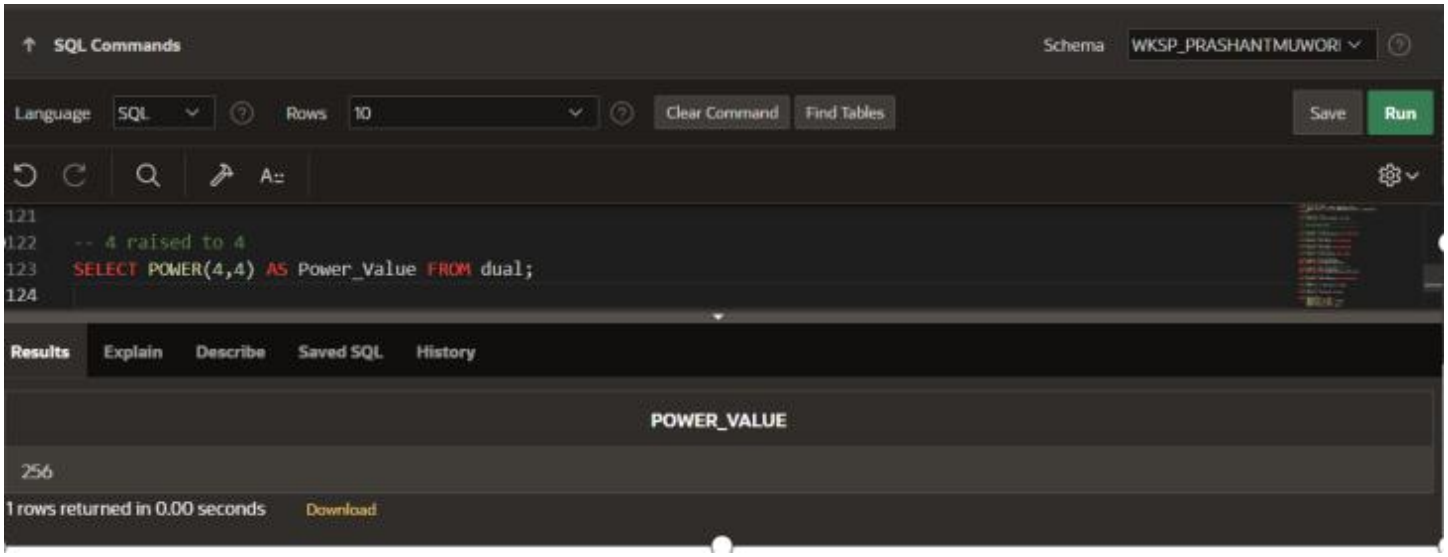
Experiment No: 03	**Date:**	**Enrollment No:92200133026**



8. Display the result of 4 rest to 4.



9. Find the square root of 25.

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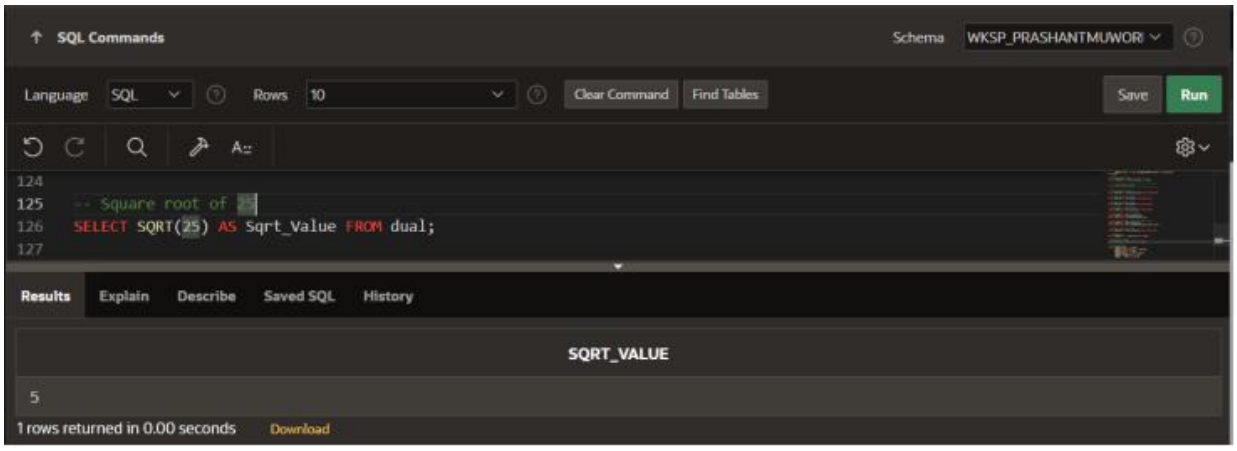
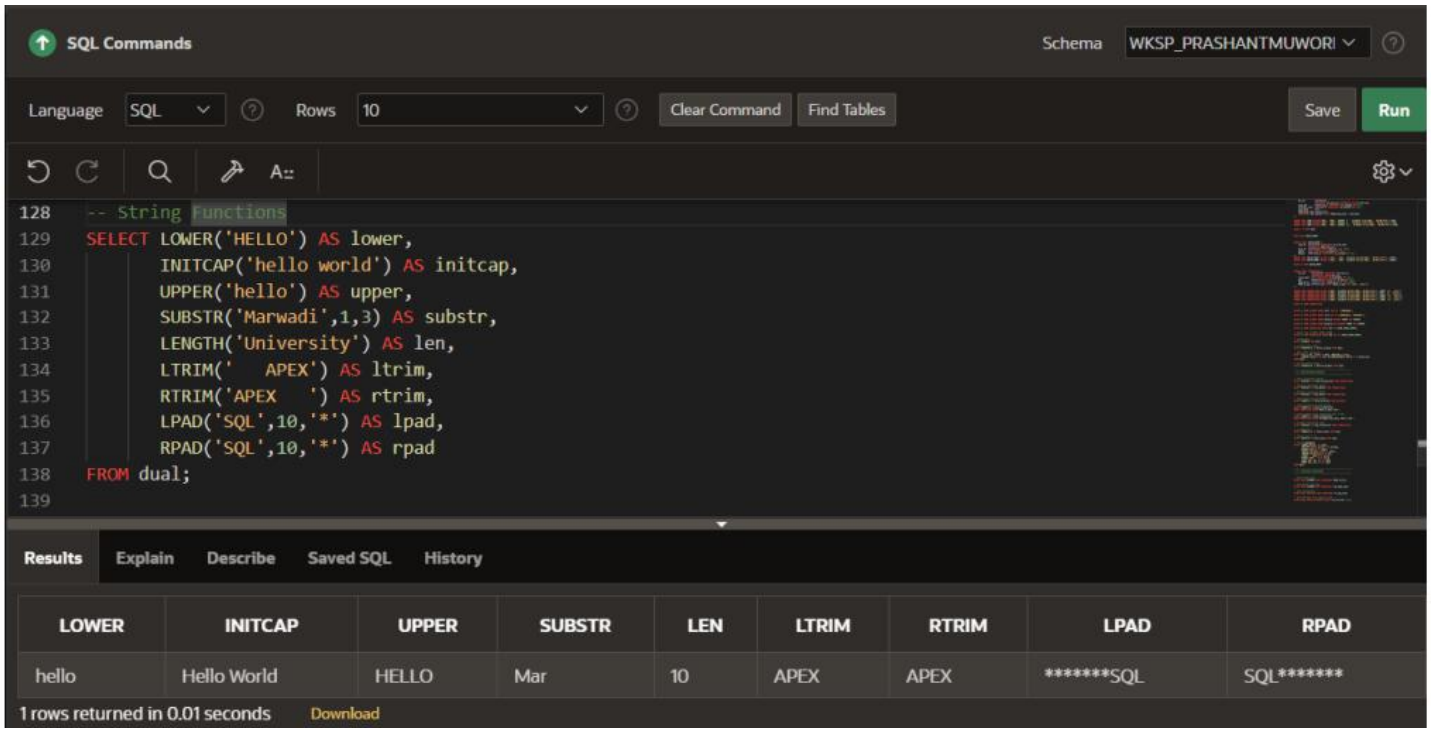


10. Write the query for the following Function.
LOWER,INITCAP,UPPER,SUBSTR,LENGTH,LTRIM,RTRIM,LPAD,RPAD



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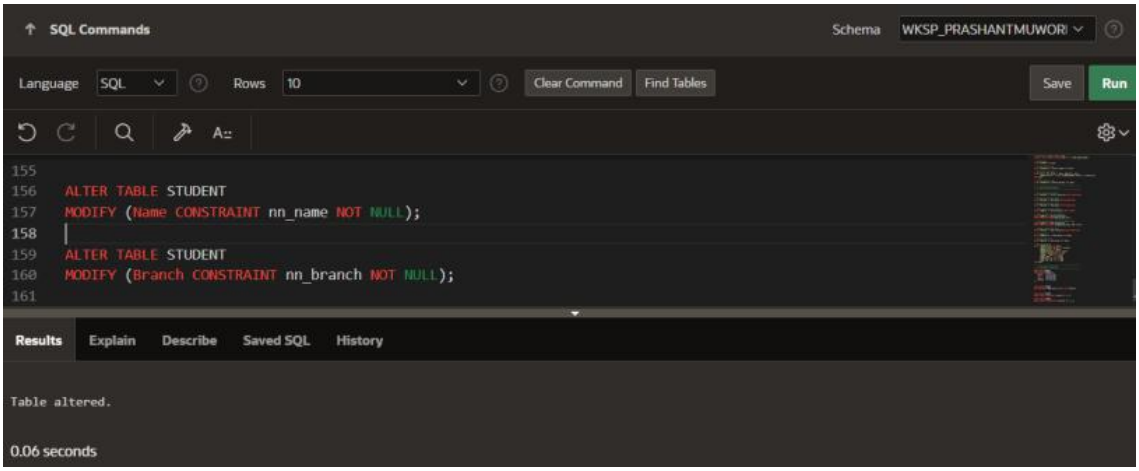
CONSTRAINTS Based queries.

Create a table: **STUDENT**

Name of column	Type and Size
Rollno	Varchar2(6)
Name	Varchar2(20)
Branch	Varchar2(6)
Address	Varchar2(20)

1. Add PRIMARY KEY (roll no) and provide constraint name PRIM_rollno.

2. Add NOT NULL constraint to name,branch for student table.



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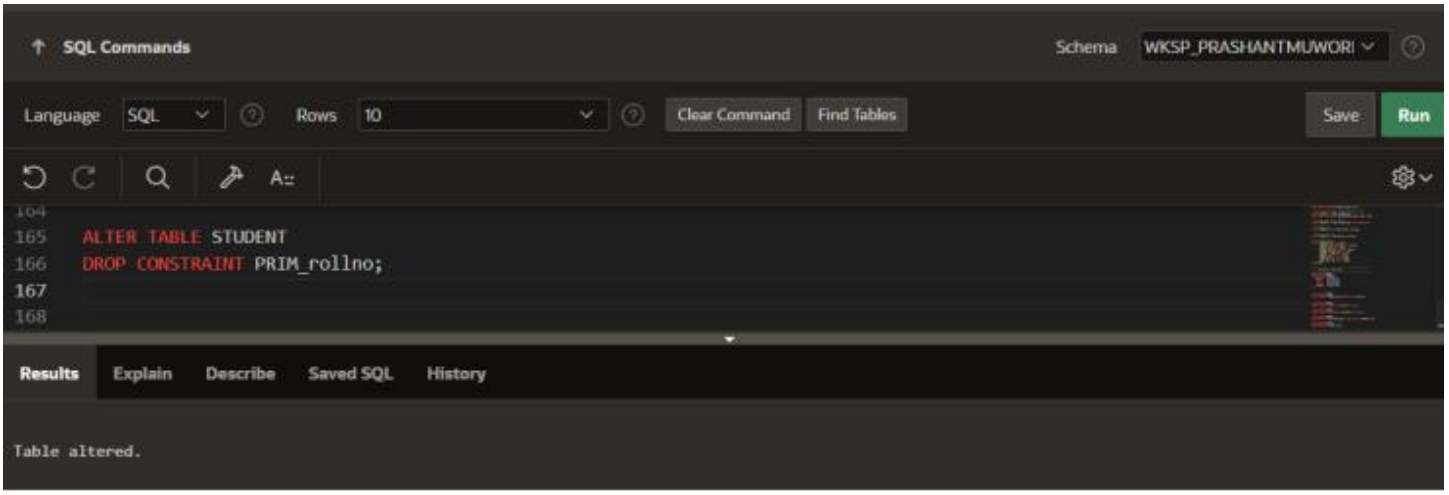
3. Add check constraint and check name is in capital letter.

4. Drop the primary key.



5. Drop the constraint.

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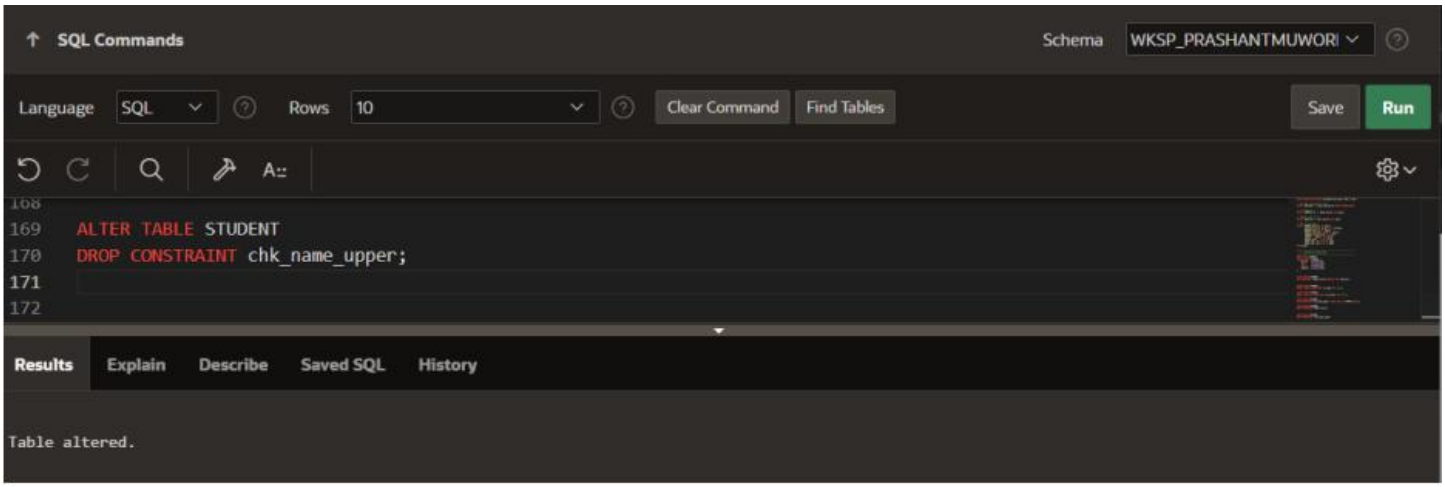
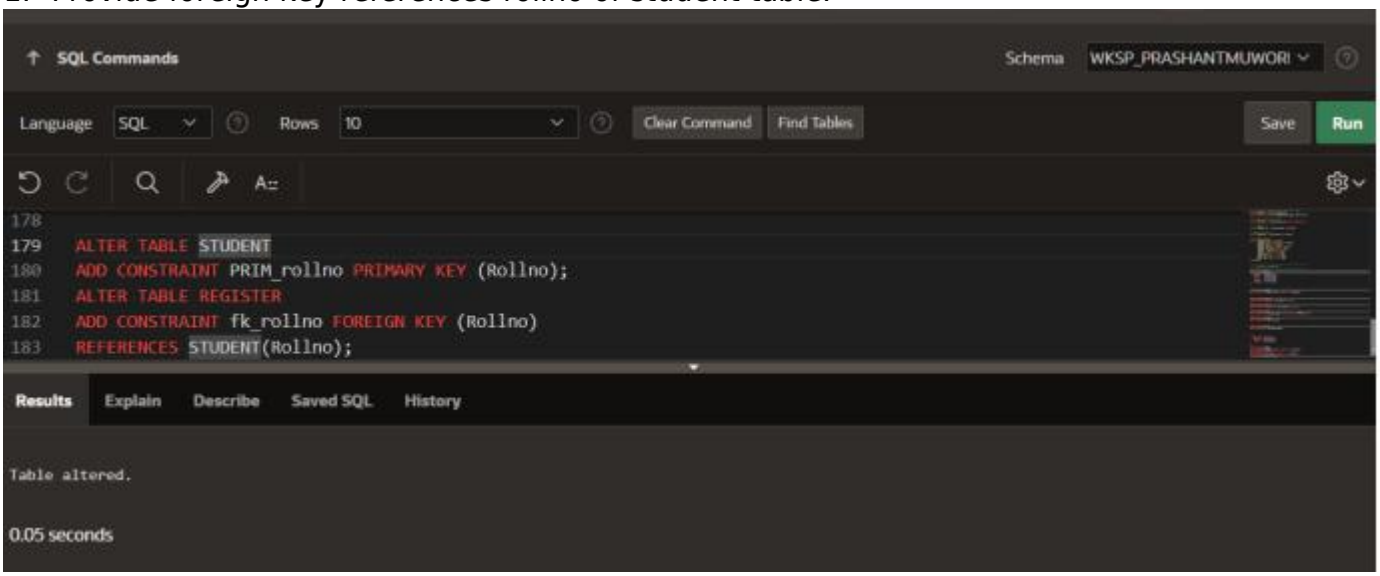


Create a Table **REGISTER.**

Name of column	**Type and Size**
Rollno	Varchar2(6)
Name	Varchar2(20)

1. Provide foreign key references rollno of student table.



2. Add check constraint to check name's first letter is always capital.

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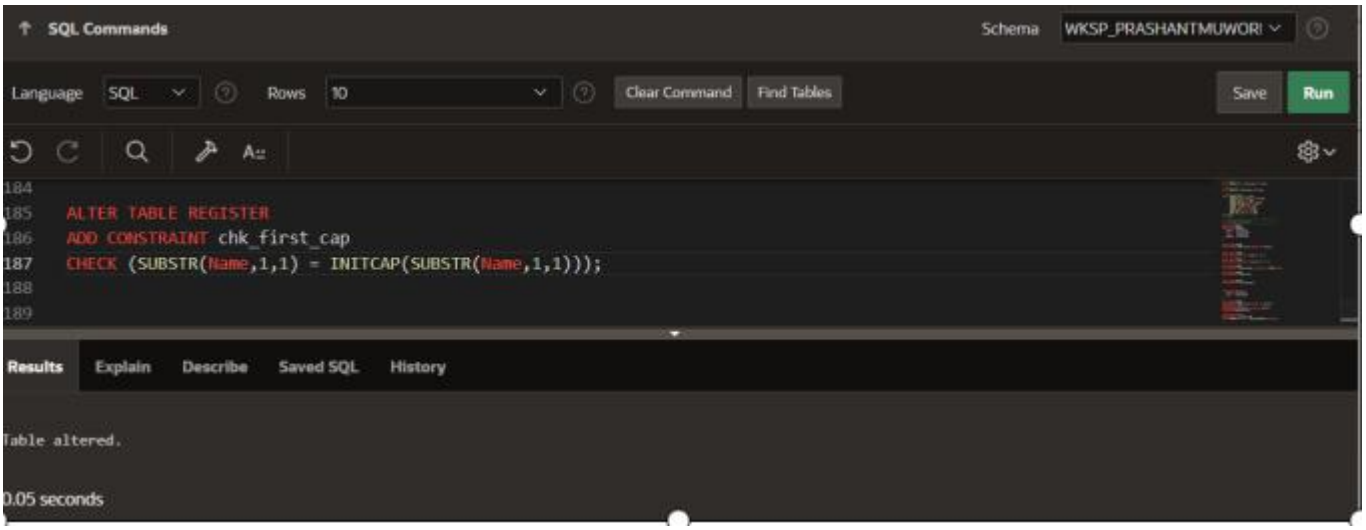
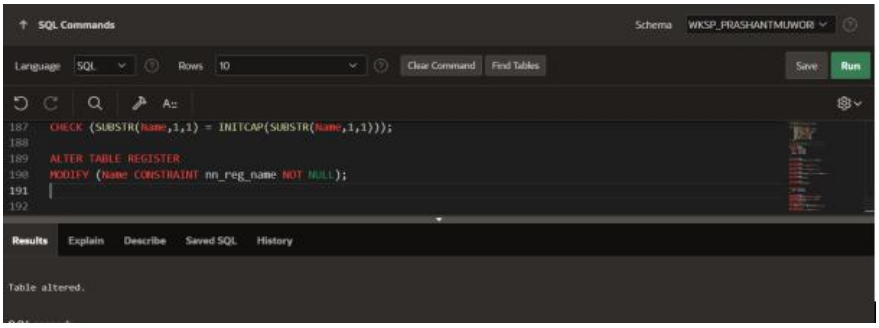
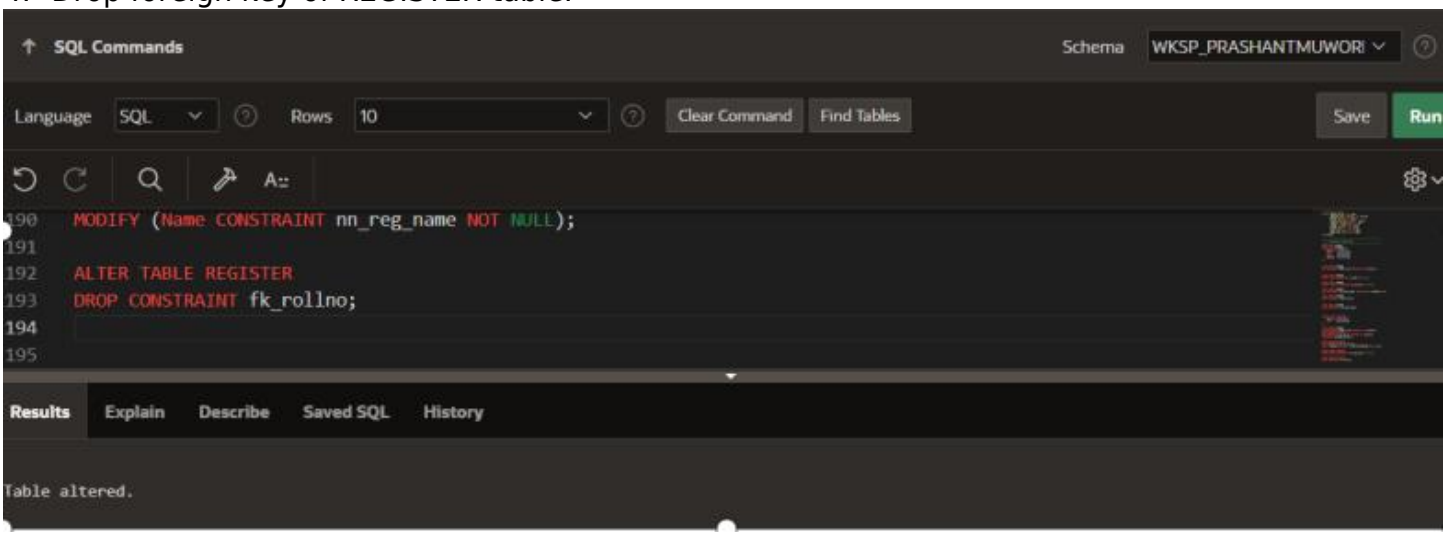
Experiment No: 03	**Date:**	**Enrollment No:92200133026**



3. Add NOT NULL constraint to name of register table.



4. Drop foreign key of REGISTER table.



5. Drop NOT NULL constraint.

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