Experiment-3: Implementation of DDL and DML commands of SQL

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Branch: - CSE-IOT **Section/Group:- A**
Semester: - 3RD **Date of Performance:-2/09/2021**
Subject Name :- DBMS LAB **Subject Code:-2OCSP-233**

1. Aim/Overview of the practical:

To Implement DDL and DML commands of SQL

2. Task to be done:

Implementation of DDL and DML commands of SQL with proper Input queries syntax and the output.

3. Theme/Interests definition(For creative domains):- Na

4. Observations/Discussions(For applied/experimental sciences/materials based labs):

- **DDL**

CREATE TABLE student:

It is used to create table structure SYNTAX: Create table (TableName (<column name1> <Data Type> (<size>), <ColumnName2> <Data Type>(<size>), …….<columnName n> <Data Type> (Size));

ORACLE Database Express Edition

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Home > SQL > SQL Commands

Autocommit Display 10

```
create table students(
st_uid int,
st_name varchar(10),
st_ph_no varchar(10)
);
```

Results Explain Describe Saved SQL History

```
Table created.
```

0.03 seconds

- **The Alter command in sql DDl is used to modify the structure of an already existing table.**

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Home > SQL > SQL Commands

Autocommit Display 10

```
alter table students add(
st_add varchar(10)
);
```

Results Explain Describe Saved SQL History

```
Table altered.
```

0.15 seconds

Language: en-us

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Home > SQL > SQL Commands

Autocommit Display 10

```
alter table students drop column st_name;
```

Results Explain Describe Saved SQL History

```
Table dropped.
```

1.11 seconds

Language: en-us

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Home > SQL > SQL Commands

Autocommit Display 10

```
desc students;
```

Results Explain Describe Saved SQL History

Object Type **TABLE** Object **STUDENTS**

Table	Column	Data Type	Length	Precision	Scale	Primary Key	Nullable	Default	Comment
STUDENTS	ST_ID	Number	-	-	0	-	✓	-	-
	ST_PH_NO	Varchar2	10	-	-	-	✓	-	-
	ST_ADD	Varchar2	10	-	-	-	✓	-	-

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- **Use Alter Command**
- **Rename the table students to students_info**

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Home > SQL > SQL Commands

Autocommit Display 10

```
alter table students rename to student_info;
```

Results Explain Describe Saved SQL History

```
Table altered.
```

0.24 seconds

Language: en-us

User: NEHASHARMA_20BCS4576

Autocommit Display 10

```
desc student_info;
```

Results Explain Describe Saved SQL History

Object Type **TABLE** Object **STUDENT_INFO**

Table	Column	Data Type	Length	Precision	Scale	Primary Key	Nullable	Default	Comment
STUDENT_INFO	ST_ID	Number	-	-	0	-	✓	-	-
	ST_PH_NO	Varchar2	10	-	-	-	✓	-	-
	ST_ADD	Varchar2	10	-	-	-	✓	-	-

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- **Rename st_ph_no to st_contact_no**

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Home > SQL > SQL Commands

Autocommit Display 10

```
alter table student_info rename column st_ph_no to st_contact_no;
```

Results Explain Describe Saved SQL History

```
Table altered.
```

0.04 seconds

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Home > SQL > SQL Commands

Autocommit Display 10

```
desc student_info;
```

Results Explain Describe Saved SQL History

Object Type **TABLE** Object **STUDENT_INFO**

Table	Column	Data Type	Length	Precision	Scale	Primary Key	Nullable	Default	Comment
STUDENT_INFO	ST_ID	Number	-	-	0	-	✓	-	-
	ST_CONTACT_NO	Varchar2	10	-	-	-	✓	-	-
	ST_ADD	Varchar2	10	-	-	-	✓	-	-

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- **USE TRUNCATE COMMAND**

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Home > SQL > SQL Commands

Autocommit Display 10

```
truncate table student_info;
```

Results Explain Describe Saved SQL History

```
Table truncated.
```

0.14 seconds

Language: en-us

- **USE DROP COMMAND**

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Home > SQL > SQL Commands

Autocommit Display 10

```
drop table student_info;
```

Results Explain Describe Saved SQL History

```
Table dropped.
```

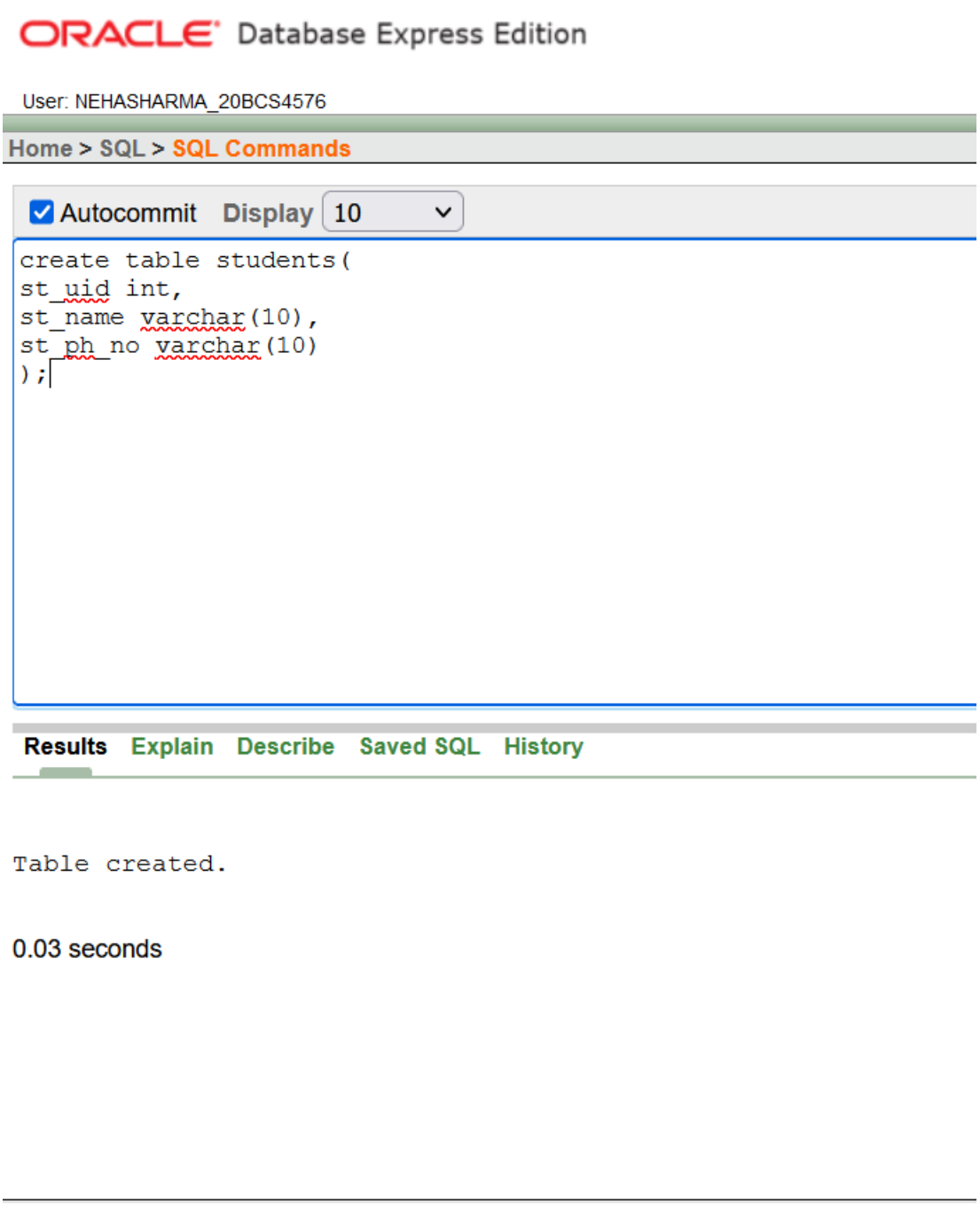
0.63 seconds

Language: en-us

- **DML**

CREATE TABLE student:

It is used to create table structure SYNTAX: Create table (TableName (<column name1> <Data Type> (<size>), <ColumnName2> <Data Type>(<size>), …….<columnName n> <Data Type> (Size));



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Home > SQL > SQL Commands

Autocommit Display 10

```
desc students;
```

Results Explain Describe Saved SQL History

Object Type **TABLE** Object **STUDENTS**

Table	Column	Data Type	Length	Precision	Scale	Primary Key	Nullable	Default	Comment
STUDENTS	ST_UID	Number	-	-	0	-	✓	-	-
	ST_NAME	Varchar2	10	-	-	-	✓	-	-
	ST_PH_NO	Varchar2	10	-	-	-	✓	-	-

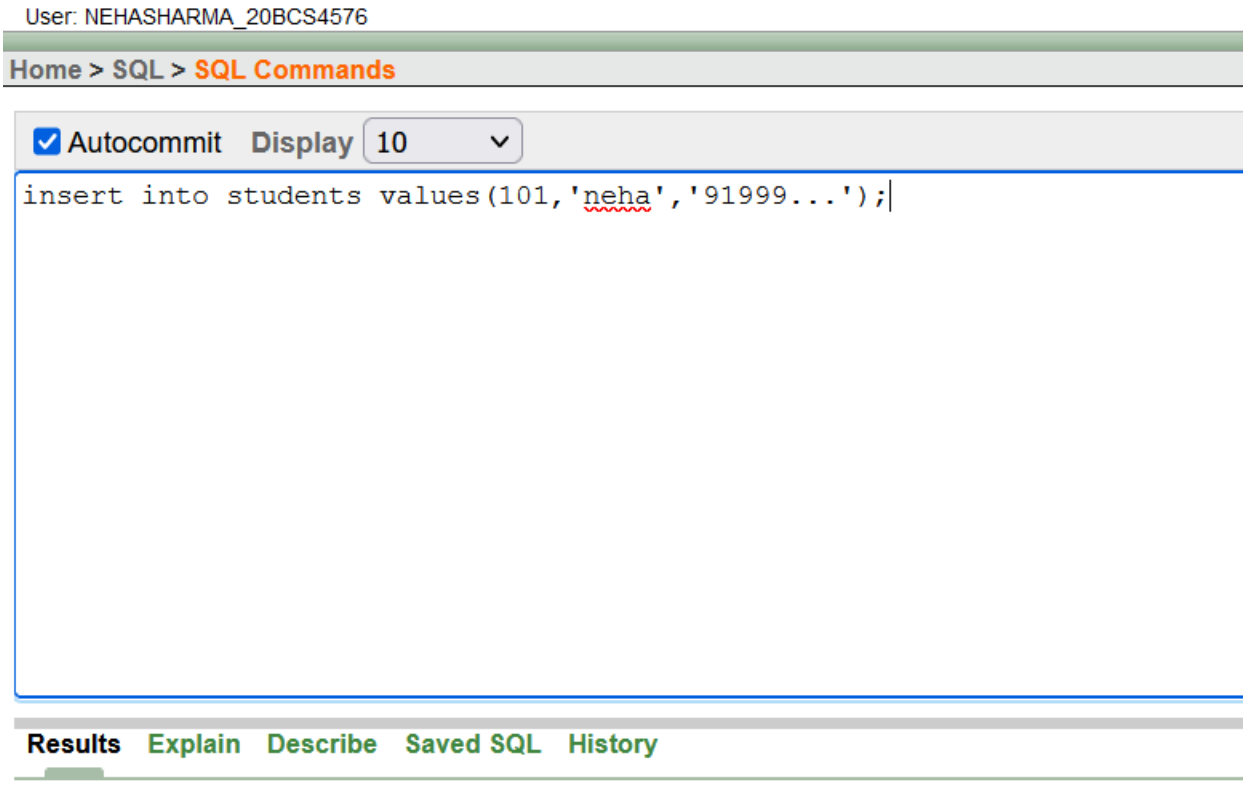
1 - 3

Language: en-us

- **INSERT INTO TABLE command**
- **Purpose: It is used to add records to the table**

Syntax: Insert into <tablename> (<col1>,<col2>……..,<col n>) values (<expression1>, <expression2> , ……,<expression3>);

Inserting single row




```
1 row(s) inserted.
```

0.06 seconds

Inserting all one by one

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```
insert into students values(102,'rahul','73878...');
insert into students values(103,'sumi', '98352...');
insert into students values(104,'ananya','96937...');
```

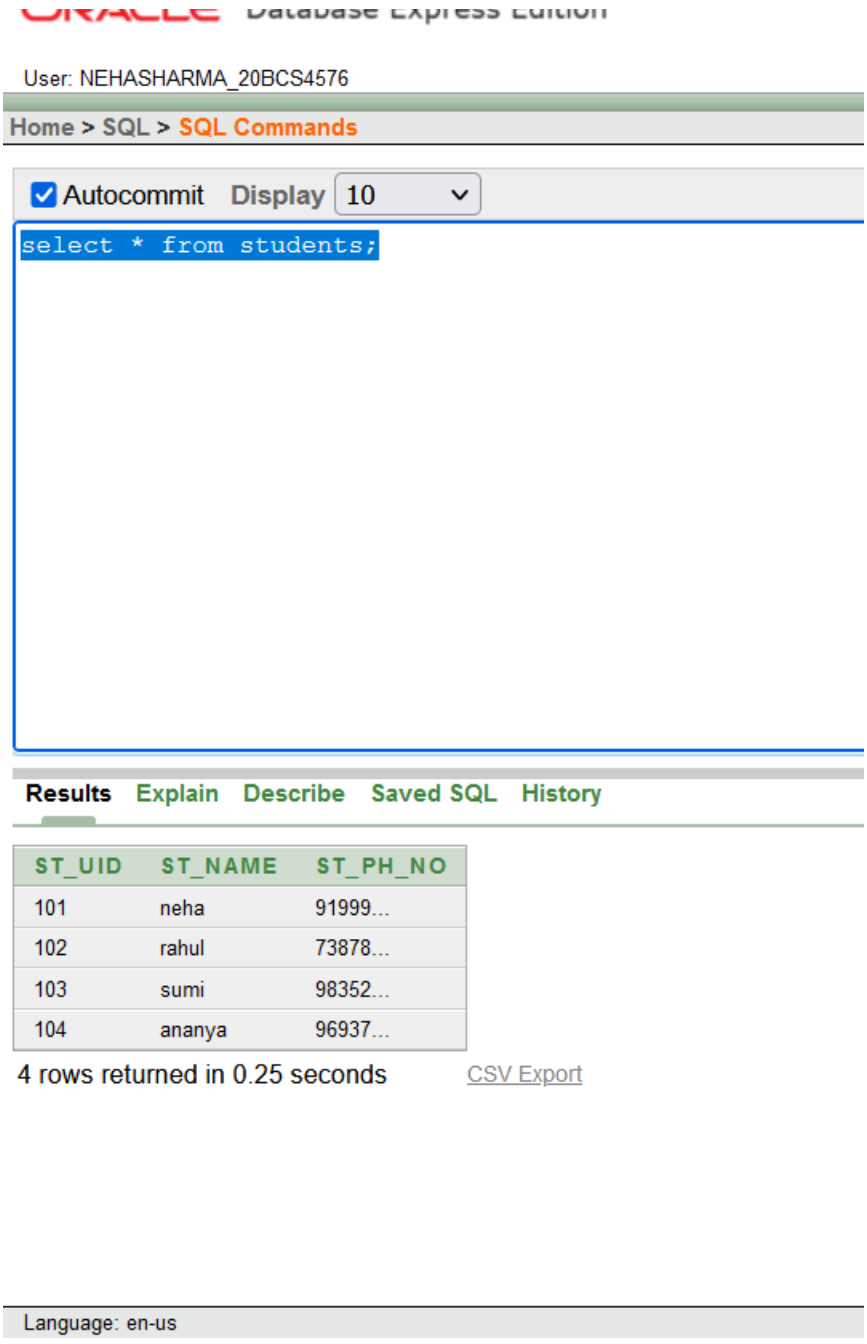
Results Explain Describe Saved SQL History

```
1 row(s) inserted.
```

0.00 seconds

Language: en-us

- **SELECT command**
- **Purpose: used for getting data from the table**



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Home > SQL > SQL Commands

Autocommit Display 10

```
select st_name from students;
```

Results Explain Describe Saved SQL History

ST_NAME
neha
rahul
sumi
ananya

4 rows returned in 0.00 seconds CSV Export

Language: en-us

- **Use UPDATE command**
- **Syntax:- <Table name> set <col name1>=<expression1>, <col name2>=<expression2> where <condition<;**
  Rename Rahul to misthi use the st_uid

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Home > SQL > SQL Commands

Autocommit Display 10

```
update students set st_name='misthi' where st_uid=102;
```

Results Explain Describe Saved SQL History

```
1 row(s) updated.
```

0.02 seconds

Language: en-us

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Home > SQL > SQL Commands

Autocommit Display 10

```
select * from students;
```

Results Explain Describe Saved SQL History

ST_UID	ST_NAME	ST_PH_NO
101	neha	91999...
102	misthi	73878...
103	sumi	98352...
104	ananya	96937...

4 rows returned in 0.00 seconds CSV Export

Language: en-us

- **DELETE command**
- **Purpose: used to delete all or specific records(based on conditions**
- **Syntax: Delete From <TableName> where<Conditions>;**

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Home > SQL > SQL Commands

Autocommit Display 10

```
delete from students where st_uid=101;
```

Results Explain Describe Saved SQL History

```
1 row(s) deleted.
```

1.00 seconds

Language: en-us

ORACLE Database Express Edition

User: NEHASHARMA_20BCS4576

Home > SQL > SQL Commands

Autocommit Display 10

```
select * from students;
```

Results Explain Describe Saved SQL History

ST_UID	ST_NAME	ST_PH_NO
102	misthi	73878...
103	sumi	98352...
104	ananya	96937...

3 rows returned in 0.06 seconds CSV Export

5. Graphs (If Any): Image/Soft copy of graph paper to be attached here:-NA

Learning outcomes (What I have learnt):

1.Learnt how to insert data in a table.

2.Learnt how to delete records from table.

3.Learnt how to use aggregate functions.

Evaluation Grid (To be created as per the SOP and Assessment guidelines by the faculty):

Sr. No.	Parameters	Marks Obtained	Maximum Marks
1.			
2.			
3.			