Experiment No.: 1

<u>Aim</u>

To familiarize DDL Commands- CREATE, ALTER, DROP, TRUNCATE, RENAME

Name: SHAMJAD MAZOOD NAZER

Roll No: 36

Batch: B

Date: 08-04-2022

QUESTION

1.Create a table emp with attributes empno number(4)as primary key, ename char(10),hiredate, salary, commission

insert 5 rows of data

101	Ramesh	17-Jan 1980	5000	
102	Ajay	05-Jul 1985	5000	500
103	Ravi	12-Aug 1981	1500	
104	Nikesh	03-Mar 1983	3000	700
105	Ravi	05-jul 1985	3000	

- 2. Modifying the structure of tables
- a) Add new columns: sal number(7,2)
- b) Dropping a column from a table: sal
- c) Modifying existing column :ename varchar2(15)
- d) Renaming the tables: emp to emp1
- e) truncating the tables:emp1
- f) Destroying tables:emp
- 3.Create a table stud with sname varchar2(20) primary key , rollno number(10) not null,dob date not null
- 4.Create a table student as regno number (6), mark number (3) check constraint (mark >=0 and mark <=100));

In table student add check constraint(length(regno<=4))

5.Create a table cust with(custid number(6) constraint unique, name char(10) 6. Refer the table "stud" in table "student"

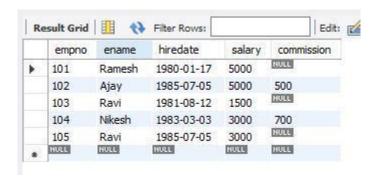
PROCEDURE AND OUTPUT SCREENSHOT

1. EMP table (Create and Insert)

```
CREATE TABLE emp(
empno int(5),
ename varchar(10),
hiredate date,
salary bigint,
commission bigint,
PRIMARY KEY (empno)
);
```

INSERT INTO emp VALUES (101,'Ramesh','1980-01-17',5000,null), (102,'Ajay','1985-07-05',5000,500), (103,'Ravi','1981-08-12',1500,null), (104,'Nikesh','1983-03-03',3000,700), (105,'Ravi','1985-07-05',3000,null);

select * from emp1;



2. Modifying the structure of tables

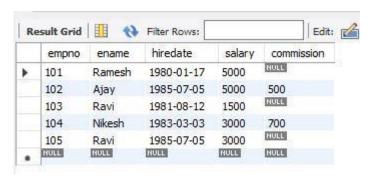
a. Add new columns: sal number(7,2)

>alter table emp add sal numeric(7,2);



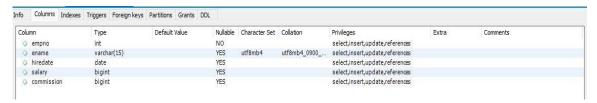
b. Dropping a column from a table: sal

>alter table emp drop sal;



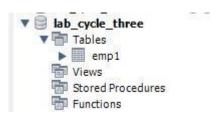
c. Modifying existing column :ename varchar2(15)

>alter table emp modify column ename varchar(15);



d. Renaming the tables: emp to emp1

>alter table emp rename emp1;



e. truncating the tables: emp1

>truncate table emp1;



f. Destroying tables: emp

>drop table emp1;



3 .STUD table

```
CREATE TABLE stud (
sname varchar(20),
rollno numeric(10) not null,
dob date not null,
PRIMARY KEY (sname)
);

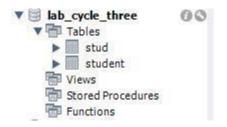
lab_cycle_three
Tables
Stud
Views
```

Tored Procedures

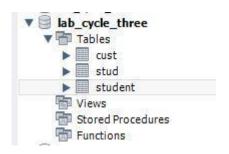
4.STUDENT table

Functions

```
CREATE TABLE student (
  regno numeric(6),
  mark numeric(3),
  check(mark >= 0 and mark <= 100)
);</pre>
```



5. CUST Table



Experiment No.: 2

<u>Aim</u>

To study various DML commands – select, insert, delete, update

Name: SHAMJAD MAZOOD NAZER

Roll No: 36

Batch: B

Date: 25-03-2022

QUESTION

Create the following Tables and Insert values.

Table 1: DEPOSIT

ACTNO VARCHAR (5) PRIMARY KEY, FIRST LETTER MUST START WITH 'D'

CNAME VARCHAR (20) FOREIGN KEY REFERENCES CUSTOMER

BNAME VARCHAR (20) FOREGIGN KEY REFERENCES BRANCH

AMOUNT NUMBER (8,2) NOT NULL, CANNOT BE 0

ADATE DATE

Table 2: BRANCH

BNAME VARCHAR2(20) PRIMARY KEY

CITY VARCHAR2(30) NOT NULL, any one of NAGPUR, DELHI, BANGALORE, BOMBAY

Table 3: CUSTOMER

CNAME VARCHAR (15) PRIMARY KEY

CITY VARCHAR (20) NOT NULL

Table 4: BORROW

LOANNO VARCHAR (28) PRIMARY KEY / FIRST LETTER MUST START WITH 'L'

CNAME VARCHAR (15) FOREIGN KEY REFERENCES CUSTOMER

BNAME VARCHAR2(20) FOREIGN KEY REFERENCES BRANCH

AMOUNT NUMBER(8,2) NOT NULL, CANNOT BE 0

PROCEDURE & OUTPUT

1. Customer table (Create and Insert)

```
CREATE TABLE CUSTOMER(
CNAME varchar(15) primary key,
CITY varchar(20) NOT NULL
);
INSERT INTO CUSTOMER values('ANIL','CALCUTTA');
INSERT INTO CUSTOMER values('SUNIL','DELHI');
INSERT INTO CUSTOMER values('MEHUL', 'BARODA');
INSERT INTO CUSTOMER values('MANDAR','PATNA');
INSERT INTO CUSTOMER values('MADHURI','NAGPUR');
INSERT INTO CUSTOMER values('PRAMOD','NAGPUR');
INSERT INTO CUSTOMER values('SANDIP','SURAT');
INSERT INTO CUSTOMER values('SHIVANI', 'BOMBAY');
INSERT INTO CUSTOMER values('KRANTI','BOMBAY');
INSERT INTO CUSTOMER values('NAREN','BOMBAY');
INSERT INTO CUSTOMER values('VRCE','NAGPUR');
INSERT INTO CUSTOMER values('AJNI','NAGPUR');
```

2. Branch (Create and Insert)

CREATE TABLE BRANCH(BNAME VARCHAR(20) PRIMARY KEY,CITY VARCHAR(30)CHECK(CITY IN('NAGPUR','DELHI','BANGALORE','BOMBAY'))NOT NULL);

```
INSERT INTO BRANCH VALUES('KAROLBAGH','DELHI');
INSERT INTO BRANCH VALUES('CHANDINI','DELHI');
INSERT INTO BRANCH VALUES('DHARAMPETH','NAGPUR');
INSERT INTO BRANCH VALUES('MG ROAD','BANGALORE');
INSERT INTO BRANCH VALUES('ANDHERI','BOMBAY');
INSERT INTO BRANCH VALUES('NEHRU PALACE','DELHI');
INSERT INTO BRANCH VALUES('POWAI','BOMBAY');
```

3. Borrow (Create and Insert)

CREATE TABLE BORROW(LOANNO VARCHAR(8)CHECK(LOANNO LIKE'L%')PRIMARY KEY, CNAME VARCHAR(15) references CUSTOMER(CNAME), BNAME VARCHAR(20)REFERENCES BRANCH(BNAME), AMOUNT FLOAT(8)CHECK(AMOUNT>0)NOT NULL);

INSERT INTO BORROW VALUES('L201','ANIL','VRCE',1000.00);

INSERT INTO BORROW VALUES('L206', 'MEHUL', 'AJNI', 5000.00);

INSERT INTO BORROW VALUES('L311', 'SUNIL', 'DHARAMPETH', 3000.00);

INSERT INTO BORROW VALUES('L321','MADHURI','ANDHERI',2000.00);

INSERT INTO BORROW VALUES('L371','PRAMOD','VIRAR',8000.00);

INSERT INTO BORROW VALUES('L481', 'KRANTI', 'NEHRU PLACE', 3000.00);

4. Deposit (Create and Insert)

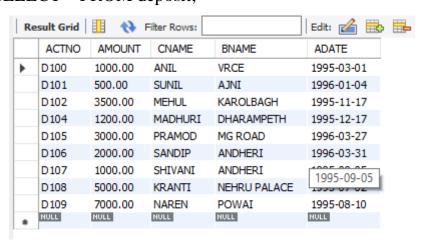
CREATE TABLE DEPOSITE(ACTNO VARCHAR(20)CHECK (ACTNO LIKE'D%')PRIMARY KEY, CNAME VARCHAR(15) references
CUSTOMER(CNAME), BNAME VARCHAR(20) references BRANCH(BNAME), AMOUNT FLOAT(8) CHECK(AMOUNT>0) NOT NULL, ADATE DATE);

INSERT INTO DEPOSITE VALUES('D1456', 'PRAVAV', 'DELHI', 32000, '1978-06-24'); INSERT INTO DEPOSITE VALUES('D1478', 'HARSHAL', 'BANGALORE', 905000, '1996-05-24');

INSERT INTO DEPOSITE VALUES('D1492','THARUN','BOMBAY',123000,'1999-03-12'); INSERT INTO DEPOSITE VALUES('D1123','DEVIKA','NAGPUR',82000,'2000-01-09'); INSERT INTO DEPOSITE VALUES('D1543','KIRAN','DELHI',89000,'1980-12-02'); INSERT INTO DEPOSITE VALUES('D1864','MANASI','BANGALORE',23400,'1995-09-12');

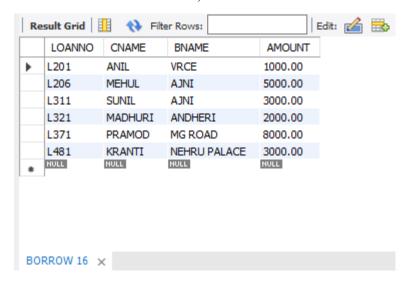
1. List all data from table deposit.

SELECT * FROM deposit;



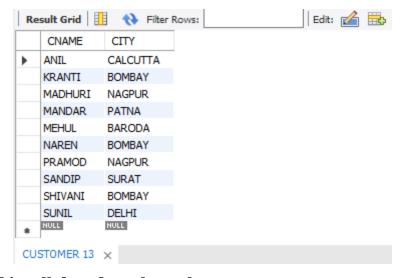
2. List all data from borrow.

SELECT * FROM borrow;



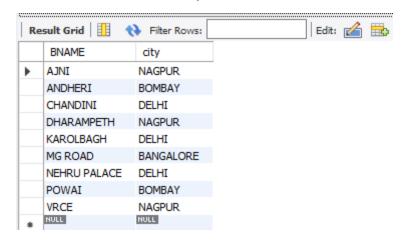
3. List all data from customer.

SELECT * FROM customer;



4. List all data from branch.

SELECT * FROM branch;



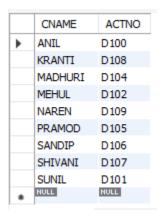
5. Give account no and amount of deposit.

SELECT ACTNO, AMOUNT FROM deposit;

	T	
	ACTNO	AMOUNT
•	D100	1000.00
	D101	500.00
	D102	3500.00
	D104	1200.00
	D105	3000.00
	D106	2000.00
	D107	1000.00
	D108	5000.00
	D109	7000.00
	NULL	NULL

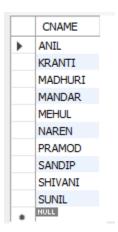
6. Give customer name and account no of depositors.

SELECT CNAME, ACTNO FROM deposit;



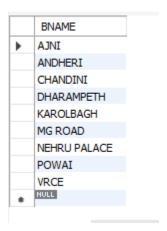
7. Give name of customers.

SELECT CNAME FROM customer;



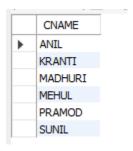
8. Give name of branches.

SELECT BNAME FROM branch;



9. Give name of borrows.

SELECT CNAME FROM borrow;



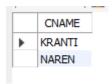
10. Give names of customer living in city Nagpur.

SELECT CNAME FROM CUSTOMER WHERE CITY = 'NAGPUR':



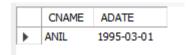
11. Give names of depositors having amount greater than 4000.

SELECT CNAME FROM deposit WHERE amount > 4000;



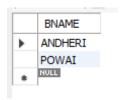
12. Give account date of Anil.

SELECT ADATE FROM deposit WHERE CNAME = 'ANIL';



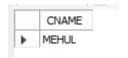
13. Give name of all branches located in Bombay.

SELECT BNAME FROM branch WHERE CITY = 'BOMBAY';



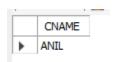
14. Give name of borrower having loan number L205.

SELECT CNAME FROM borrow WHERE LOANNO='L205';



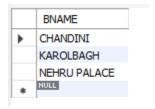
15. Give names of depositors having account at VRCE.

SELECT CNAME FROM deposit WHERE BNAME = 'VRCE';



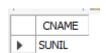
16. Give names of all branched located in city Delhi.

SELECT BNAME FROM branch WHERE city = 'DELHI';



17. Give name of the customers who opened account date '1-12-96'.

SELECT CNAME FROM deposit WHERE ADATE = '1996-12-01';



18. Give account no and deposit amount of customers having account opened between dates '1-12-96' and '1-5-96'.

SELECT ACTNO, AMOUNT FROM deposit WHERE ADATE BETWEEN '1996-12-01' AND '1996-05-01';



19. Give name of the city where branch KAROLBAGH is located.

SELECT city FROM branch WHERE BNAME = 'KAROLBAGH';



20. Give details of customer ANIL.

SELECT * FROM customer JOIN borrow ON customer.CNAME = borrow.CNAME JOIN deposit ON deposit.CNAME = borrow.CNAME WHERE customer.CNAME = 'ANIL';



Experiment No.: 3

Name: SHAMJAD MAZOOD NAZER

Roll No: 36

Batch: B

Date: 19-04-2022

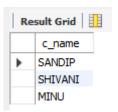
Aim

To familiarize with set operations.

Commands

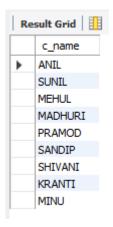
1. List all the customers who are depositors but not borrowers.

SELECT c_name FROM deposit WHERE c_name NOT IN (SELECT c_name FROM borrow);



2. List all the customers who are both depositors and borrowers

SELECT c_name FROM deposit UNION (SELECT c_name FROM borrow);



3. List all the depositors having deposit in all the branches where Sunil is having Account

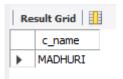
SELECT D1.c_name FROM deposit D1 WHERE D1.b_name IN (SELECT D2.b_name FROM deposit D2 WHERE D2.c_name = 'SUNIL');

Amal Jyothi College of Engineering, Kanjirappally



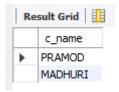
4. List all the customers living in city NAGPUR and having branch city BOMBAY or DELHI

SELECT C1.c_name FROM customer C1,deposit D1, branch B1 WHERE C1.city = 'NAGPUR' AND C1.c_name = D1.c_name AND D1.b_name = B1.b_name AND B1.city IN ('BOMBAY','DELHI');



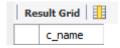
4. List all the depositors living in city NAGPUR

SELECT DISTINCT(customer.c_name) from customer,deposit WHERE city='NAGPUR';



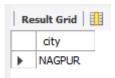
5. List all the depositors living in the city NAGPUR and having branch in city BOMBAY

SELECT C1.c_name FROM customer C1,deposit D1, branch B1 WHERE C1.city = 'NAGPUR' AND C1.c_name = D1.c_name AND D1.b_name = B1.b_name AND B1.city IN ('BOMBAY');



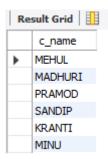
6. List the branch cities of Anil and Sunil

SELECT B1.city FROM deposit D1, branch B1 WHERE D1.b_name = B1.b_name AND D1.c_name IN ('SUNIL', 'ANIL');



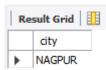
8. List the customers having deposit greater than 1000 and loan less than 10000.

SELECT DISTINCT D1.c_name FROM deposit D1, borrow B1 WHERE D1.amount>1000 AND B1.amount<10000;



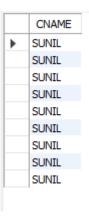
9. List the cities of depositors having branch VRCE.

SELECT B1.city FROM deposit D1, branch B1 WHERE D1.BNAME=B1.b_name AND B1.b_name='VRCE';



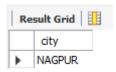
10. List the depositors having amount less than 1000 and living in the same city as Anil

SELECT D1.c_name FROM deposit D1,customer C1 , customer C2 WHERE C1.CITY = C2.CITY AND C2.c_name = 'ANIL' AND C1.c_name = D1.c_name AND D1.amount < 1000;



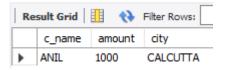
11. List all the cities where branches of Anil and Sunil are locate

SELECT B1.city FROM branch B1 WHERE B1.b_name IN (SELECT D1.b_name FROM deposit D1 WHERE D1.c_name IN ('ANIL', 'SUNIL'));



12. List the amount for the depositors living in the city where Anil is living

SELECT DISTINCT(D1.c_name),D1.amount ,C1.city FROM deposit D1, customer C1, branch B1 WHERE D1.c_name=C1.c_name AND C1.city IN(SELECT C2.city FROM customer C2 WHERE C2.c_name='ANIL');



Experiment No.: 4

Name: SHAMJAD MAZOOD NAZER

Roll No: 36

Batch: B

Date: 06-05-2022

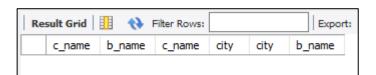
AIM

To familiarize with join or cartesian product.

QUESTION

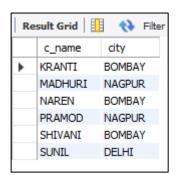
1. Give name of customers having living city BOMBAY and branch city NAGPUR.

SELECT D1.c_name, D1.b_name, C1.c_name, C1.city, B1.city, B1.b_name FROM DEPOSIT D1, CUSTOMER C1, BRANCH B1 WHERE C1.city = 'BOMBAY' AND B1.city = 'NAGPUR' AND D1.c_name = C1.c_name AND D1.b_name = B1.b_name;



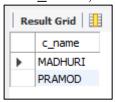
2. Give names of customers having the same living city as their branch city.

SELECT distinct(customer.c_name), BRANCH.city FROM BRANCH, customer WHERE BRANCH.city = customer.city;



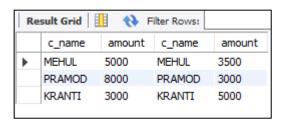
3. Give names of customers who are borrowers as well as depositors and having city NAGPUR.

SELECT C1.c_name FROM CUSTOMER C1,DEPOSIT D1,BORROW B1 WHERE C1.city='NAGPUR' AND C1.c_name=D1.c_name AND D1.c_name = B1.c_name;



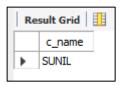
4. Give names of borrowers having deposit amount greater than 1000 and loan amount greater than 2000.

SELECT BR1.c_name, BR1.amount, D1.c_name, D1.amount FROM BORROW BR1,DEPOSIT D1 WHERE D1.c_name = BR1.c_name AND D1.amount > 1000 AND BR1.amount > 2000;



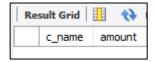
5. Give names of depositors having the same branch as the branch of Sunil.

SELECT D1.c_name FROM DEPOSIT D1 WHERE D1.b_name IN (SELECT D2.b_name FROM DEPOSIT D2 WHERE D2.c_name = 'SUNIL');



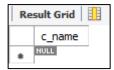
6. Give names of borrowers having loan amount greater than the loan amount of Pramod.

SELECT BR1.c_name,BR1.amount FROM BORROW BR1 WHERE BR1.amount > ALL (SELECT BR2.amount FROM BORROW BR2 WHERE BR2.c_name = 'PRAMOD');



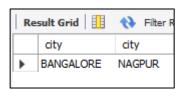
7. Give the name of the customer living in the city where branch of depositor Sunil is located.

SELECT C.c_name FROM CUSTOMER C WHERE C.city IN (SELECT B.city FROM BRANCH B WHERE B.b_name IN (SELECT D.b_name FROM DEPOSIT D WHERE D.c_name='SUNIL'));



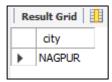
8. Give branch city and living city of Pramod.

SELECT B1.city, C1.city FROM BRANCH B1,CUSTOMER C1, DEPOSIT D1 WHERE C1.c_name = 'PRAMOD' AND C1.c_name = D1.c_name AND D1.b_name = B1.b_name;



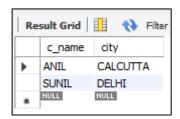
9. Give branch city of Sunil and branch city of Anil.

SELECT B1.city FROM DEPOSIT D1, BRANCH B1 WHERE D1.b_name = B1.b_name AND D1.c_name IN ('SUNIL', 'ANIL');



10. Give the living city of Anil and the living city of Sunil.

SELECT C1.c_name, C1.city FROM CUSTOMER C1 WHERE C1.c_name = 'ANIL' OR C1.c_name = 'SUNIL';



Experiment No.: 5

Name: SHAMJAD MAZOOD NAZER

Roll No: 36

Batch: B

Date: 06-05-2022

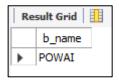
AIM

To familiarize with Group by and Having clause.

COMMANDS AND OUTPUT

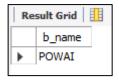
1. List the branches having sum of deposit more than 5000.

SELECT D.b_name FROM DEPOSIT D, BRANCH B WHERE D.b_name=B.b_name AND B.city='BOMBAY' GROUP BY D.b_name HAVING SUM(D.amount)>5000;



2. List the branches having sum of deposit more than 500 and located in city BOMBAY.

SELECT D.b_name FROM DEPOSIT D, BRANCH B WHERE D.b_name=B.b_name GROUP BY D.b_name HAVING SUM(D.amount)>5000;



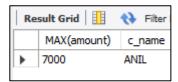
3. List the names of customers having deposited in the branches where the average deposit is more than 5000.

SELECT c_name from deposit where amount=(select AVG(amount) from DEPOSIT GROUP BY b_name having AVG(amount)>5000)



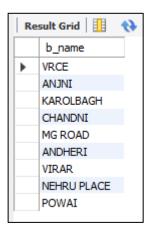
4. List the names of customers having maximum deposit.

SELECT MAX(amount),c_name FROM deposit;



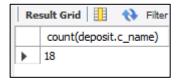
5. List the name of branch having highest number of depositors.

SELECT D1.b_name FROM DEPOSIT D1 GROUP BY D1.b_name HAVING COUNT(D1.c_name) >= ALL (SELECT COUNT(D2.c_name) FROM DEPOSIT D2 GROUP BY D2.b_name);



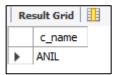
6. Count the number of depositors living in NAGPUR.

SELECT count(deposit.c_name)from deposit,CUSTOMER where CUSTOMER.city='nagpur';



7. Give names of customers in VRCE branch having more deposit than any other customer in same branch.

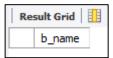
SELECT c_name from deposit where b_name='VRCE' and amount=(select max(amount) from deposit where b_name='VRCE');



20MCA134 - ADVANCED DBMS LAB

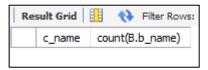
8. Give the names of branch where number of depositors is more than 5.

SELECT b_name from deposit GROUP BY b_name HAVING COUNT(b_name)>5;



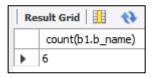
9. Give the names of cities in which the maximum number of branches are located.

SELECT C.c_name ,count(B.b_name) from CUSTOMER C inner join Branch B on C.c_name=B.b_name group by C.c_name order by count(B.b_name) DESC;



10. Count the number of customers living in the city where branch is located.

SELECT count(b1.b_name) From deposit d1, borrow b1, customer c1 Where c1.c_name=d1.c_name and d1.c_name=b1.c_name and c1.city in (select city from customer);



Experiment No.: 6

Name: SHAMJAD MAZOOD NAZER

Roll No: 36

Batch: B

Date: 10-05-2022

Aim

Implementation of triggers

QUESTION

1.Create a student table with fields id, name, subject1, subject2, subject3 and total, percentage. For each entry of row, update total marks and percentage using triggers in SQL.

2.Create a Trigger for student table that will update another table shows the name, total marks and percentage.

Procedure

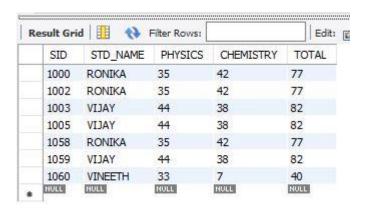
CREATE TABLE STUDENT(SID INT PRIMARY KEY auto_increment NOT NULL,STD_NAME varchar(20), PHYSICS INT,CHEMISTRY INT, TOTAL INT);

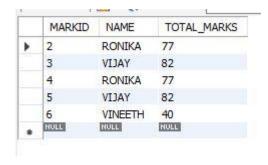
create trigger total_t
before
insert
on student
for each row
set new.total=new.physics+new.chemistry;
insert into student values(1,"stebin",3,4,0);
select * from student;
desc student;

CREATE TABLE MARKS(MARKID INT PRIMARY KEY auto_increment,NAME VARCHAR(20),TOTAL_MARKS INT);
CREATE TRIGGER MARK_TRIGGER
AFTER
INSERT
ON STUDENT
FOR EACH ROW
INSERT INTO MARKS(NAME,TOTAL_MARKS)
VALUES(new.std_NAME,new.TOTAL);

INSERT INTO STUDENT(sID,std_NAME,physics,chemistry) values(1058,'RONIKA',35,42),(1059,'VIJAY',44,38); INSERT INTO STUDENT(STD_NAME,PHYSICS,CHEMISTRY)VALUES('VINEETH',33,7); SELECT *FROM MARKS; DROP TABLE MARKS;

Output Screenshot





Experiment No.: 7

<u>Aim</u>

Installation of mongo db on windows

Name: SHAMJAD MAZOOD NAZER

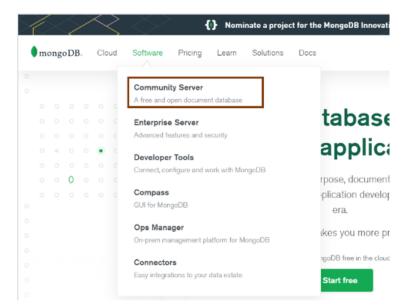
Roll No: 36

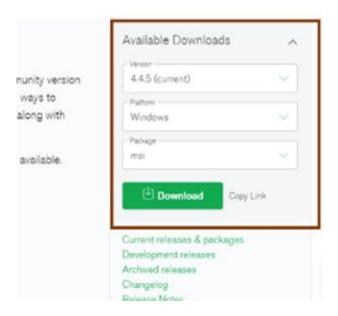
Batch: B

Date: 24-05-2022

Procedure

Step 1: download the community server version of MongoDB

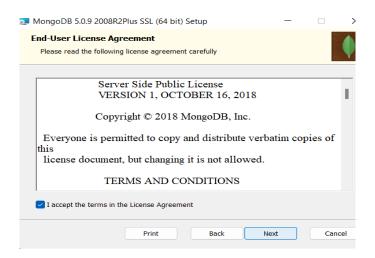




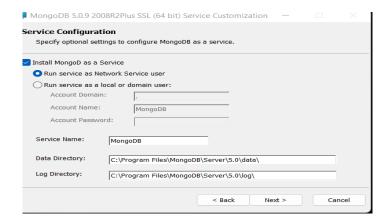
Step 2: install the software on your pc



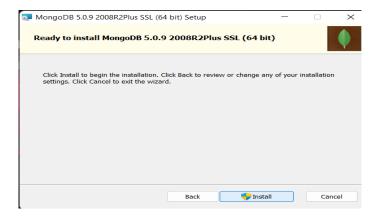
Step 3: accept the term and conditions



Step 4: choose service configuration



Step 5: make necessary changes and install



Step 6: verify the installation by typing mongo on cmd

Experiment No.: 8

Aim

Designing Databases using NoSQL: MongoDB

Name: SHAMJAD MAZOOD NAZER

Roll No: 36

Batch: B

Date: 03-06-2022

Procedure & Output: -

• To show Database

```
> show dbs
admin 0.000GB
config 0.000GB
form124 0.000GB
local 0.000GB
vijay 0.000GB
```

• To create new Database

```
> use vector
switched to db vector
>
```

To create collection and show it

```
> db.createCollection("names")
{ "ok" : 1 }
> show collections
names
```

Experiment No.: 9

Name: SHAMJAD MAZOOD NAZER

Roll No: 36

Batch: B

Date: 03-06-2022

AIM

Build sample collections/documents to perform query operations in MongoDB.

COMMANDS AND OUTPUT

01. Mongo.exe

```
C:\Program Files\MongoDB\Server\5.0\bin>mongo.exe
MongoDB shell version v5.0.8
connecting to: mongodb://127.0.0.1:27017/?compressors=disabled&gssapiServiceName=mongodb
Implicit session: session { "id" : UUID("994c6d89-1190-4e2b-a9c3-06e8eb976ef5") }
MongoDB server version: 5.0.8
=============
```

02. Create a database.

> use <database name>

```
> use rmcab36
switched to db rmcab36
```

03. Check the database list.

> show dbs

04. Create a collection.

db.createCollection(name)

```
> show collections
MCU
> db.createCollection("DCU")
{ "ok" : 1 }
```

05. Insert a value into a collection.

db.collection_name.insert({document})

```
> db.MCU.insert({name:"Captain America: The First Avenger"})
WriteResult({ "nInserted" : 1 })
```

06. Insert many values into a collection with single KEY-VALUE.

db.collection_name.insertMany({documents})

07. Insert many values into a collection.

→ db.collection_name.insertMany([{key1-:value1}, {key2:value2}])

```
> db.DCU.insertMany( [ {_id:100, movie:"The Dark Knight", year:"2008"}, {_id:101, movie:"Man of Steel", year:"2013"}, {_id:102, movie:"Batman v Superman : Dawn of Justi
ce", year:"2016"}, {_id:103, movie:"Wonder Woman", year:"2017"} ] )
{ "acknowledged" : true, "insertedIds" : [ 100, 101, 102, 103 ] }
```

08. Display the contents in a collection.

db.collection_name.find()

```
> db.MCU.find({})
{ "_id" : ObjectId("6299af1bf2c21322199838aa"), "name" : "Captain America: The First Avenger" }
{ "_id" : ObjectId("6299af75f2c21322199838ab"), "name" : "Iron Man" }
{ "_id" : ObjectId("6299af75f2c21322199838ac"), "name" : "Thor" }
{ "_id" : ObjectId("6299af75f2c21322199838ad"), "name" : "Hulk" }
{ "_id" : ObjectId("6299af75f2c21322199838ae"), "name" : "The Avengers" }
```

09. Display the contents in a collection in a formatted way.

db.collection_name.find()

```
> db.MCU.find({})
{ "_id" : ObjectId("6299af1bf2c21322199838aa"), "name" : "Captain America: The First Avenger" }
{ "_id" : ObjectId("6299af75f2c21322199838ab"), "name" : "Iron Man" }
{ "_id" : ObjectId("6299af75f2c21322199838ac"), "name" : "Thor" }
{ "_id" : ObjectId("6299af75f2c21322199838ad"), "name" : "Hulk" }
{ "_id" : ObjectId("6299af75f2c21322199838ae"), "name" : "The Avengers" }
```

10. Update a collection.

```
> db.DCU.updateOne({_id:101 },[{$set : {"_year":2014}}])
{ "acknowledged" : true, "matchedCount" : 1, "modifiedCount" : 1 }
> db.DCU.find()
{ "_id" : 100, "movie" : "The Dark Knight", "year" : "2008" }
{ "_id" : 101, "movie" : "Man of Steel", "year" : "2013", "_year" : 2014 }
{ "_id" : 102, "movie" : "Batman v Superman : Dawn of Justice", "year" : "2016" }
{ "_id" : 103, "movie" : "Wonder Woman", "year" : "2017" }
```

11. Update Many in a collection.

 db.collection_name.updateMany({Selection_criteria}, {\$set:{UpdatedKey:UpdatedValue}})

```
> db.DCU.updateMany({movie:"Dawn of Justice"},{$set: {year:"2021"}})
{ "acknowledged" : true, "matchedCount" : 2, "modifiedCount" : 2 }
> db.DCU.find({})
{ "_id" : 100, "movie" : "The Dark Knight", "year" : "2008" }
{ "_id" : 101, "movie" : "Man of Steel", "year" : "2013", "_year" : 2014 }
{ "_id" : 102, "movie" : "Batman v Superman : Dawn of Justice", "year" : "2016" }
{ "_id" : 103, "movie" : "Wonder Woman", "year" : "2017" }
{ "_id" : 104, "movie" : "Dawn of Justice", "year" : "2021" }
{ "_id" : 105, "movie" : "Dawn of Justice", "year" : "2021" }
```

12. Delete from a collection.

➤ db.collection_name.deleteOne/deleteMany({Deletion_criteria})

```
> db.DCU.deleteMany({year:"2013"})
{ "acknowledged" : true, "deletedCount" : 1 }
> db.DCU.find({})
{ "_id" : 100, "movie" : "The Dark Knight", "year" : "2008" }
{ "_id" : 102, "movie" : "Batman v Superman : Dawn of Justice", "year" : "2016" }
{ "_id" : 103, "movie" : "Wonder Woman", "year" : "2017" }
{ "_id" : 105, "movie" : "Dawn of Justice", "year" : "2021" }
>
```

Name: SHAMJAD MAZOOD NAZER

ADVANCED DBMS LAB

Experiment No.: 10

Roll No: 36

Batch: B

Date: 06-06-2022

<u>Aim</u>

PHP form data to MongoDB

QUESTION

CREATE AN PHP FROM AND STORE THE DATA IN THE MONGODB DATABASE

PROCEDURE

```
INDEX.HTML
<html>
<head>
  <title>Document</title>
</head>
<body>
  <h2>insert to mongo</h2>
  <form action="insert.php" method="post">
    <input type="text" name="name" placeholder="name">
    <input type="number" name="rollno" placeholder="rollno">
    <input type="password" name="password" placeholder="password">
    <input type="text" name="firstname" placeholder="firstname">
    <input type="submit" name="submit">
  </form>
</body>
</html>
INSERTION.PHP
<?php
$mongo = new MongoDB\Driver\Manager("mongodb://localhost:27017");
if(isset($_POST["submit"])){
  $name=$_POST["name"];
  $first_name=$_POST["firstname"];
  $rollno=$_POST["rollno"];
  $passwd=$_POST["password"];
```

```
$writer=new MongoDB\Driver\Bulkwrite;
 $writer-
>insert(["name"=>$name,"rollno"=>$rollno,"passwd"=>$passwd,"firstname"=>$fir
st_name]);
  $mongo->executeBulkWrite('form124.insertion',$writer);
  header("Location:success.html");
  die();
?>
SUCCESS.HTML
<html>
<head>
        <title>Document</title>
</head>
<body>
  <h2>successfully created</h2>
</body>
</html>
```

OUTPUT

