

20MCA134 – ADVANCED DATABASE MANAGEMENT SYSTEM LAB

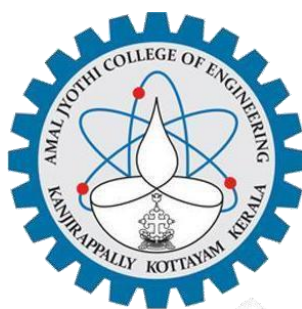
Lab Report Submitted By

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Reg. No.:AJC21MCA-2101

In Partial fulfillment for the Award of the Degree Of

MASTER OF COMPUTER APPLICATIONS (2 Year)
(MCA)

APJ ABDUL KALAM TECHNOLOGICAL UNIVERSITY



AMAL JYOTHI COLLEGE OF ENGINEERING KANJIRAPPALLY

[Affiliated to APJ Abdul Kalam Technological University, Kerala. Approved by AICTE,
Accredited by NAAC with 'A' grade. Koovappally, Kanjirappally, Kottayam, Kerala – 686518]

2021-2022

DEPARTMENT OF COMPUTER APPLICATIONS
AMAL JYOTHI COLLEGE OF ENGINEERING
KANJIRAPPALLY



CERTIFICATE

This is to certify that the Lab report, “**20MCA134 ADVANCED DATABASE MANAGEMENT SYSTEM LAB**” is the bonafide work of **SREELAKSHMI R (Reg.No: AJC21MCA-2101)** in partial fulfillment of the requirements for the award of the Degree of Master of Computer Applications under APJ Abdul Kalam Technological University during the year 2021-22.

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ADVANCED ADBMS LAB**Name: SREELAKSHMI R****Roll No: 41****Batch: RMCA B****Date:08-04-2022****Experiment No.: 1****Aim**

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

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

Create table emp:

```
CREATE TABLE EMP( EMPNO INT PRIMARY KEY , ENAME CHAR(10), HIREDATE DATE,
SALARY INT, COMMISSION INT);
```

```
INSERT INTO EMP VALUES(101,'RAMESH','1980-01-17',5000,0);
```

```
INSERT INTO EMP VALUES(102,'AJAY','1985-07-05',5000,500);
```

```
INSERT INTO EMP VALUES(103,'RAVI','1981-08-12',1500,0);
```

```
INSERT INTO EMP VALUES(104,'NIKESH','1983-03-03',3000,700);
```

```
INSERT INTO EMP VALUES(105,'RAVI','1985-07-05',3000,0);
```

OUTPUT SCREENSHOTS

```
SELECT * FROM EMP;
```

empno	ename	hiredate	salary	commission
101	Ramesh	1980-01-17	5000	0
102	Ajay	1985-07-05	5000	500
103	Ravi	1981-08-12	1500	0
104	Nikesh	1983-03-03	3000	700
105	Ravi	1985-07-05	3000	0
NULL	NULL	NULL	NULL	NULL

```
ALTER TABLE EMP ADD SAL INT;
```

empno	ename	hiredate	salary	commission	sal
101	Ramesh	1980-01-17	5000	0	NULL
102	Ajay	1985-07-05	5000	500	NULL
103	Ravi	1981-08-12	1500	0	NULL
104	Nikesh	1983-03-03	3000	700	NULL
105	Ravi	1985-07-05	3000	0	NULL
NULL	NULL	NULL	NULL	NULL	NULL

```
ALTER TABLE EMP DROP COLUMN SAL;
```

empno	ename	hiredate	salary	commission
101	Ramesh	1980-01-17	5000	0
102	Ajay	1985-07-05	5000	500
103	Ravi	1981-08-12	1500	0
104	Nikesh	1983-03-03	3000	700
105	Ravi	1985-07-05	3000	0
NULL	NULL	NULL	NULL	NULL

ALTER TABLE EMP MODIFY ENAME VARCHAR(15);

empno	ename	hiredate	salary	commision
101	Ramesh	1980-01-17	5000	0
102	Ajay	1985-07-05	5000	500
103	Ravi	1981-08-12	1500	0
104	Nikesh	1983-03-03	3000	700
105	Ravi	1985-07-05	3000	0
NULL	NULL	NULL	NULL	NULL

RENAME TABLE EMP TO EMP1;

empno	ename	hiredate	salary	commision
101	Ramesh	1980-01-17	5000	0
102	Ajay	1985-07-05	5000	500
103	Ravi	1981-08-12	1500	0
104	Nikesh	1983-03-03	3000	700
105	Ravi	1985-07-05	3000	0
NULL	NULL	NULL	NULL	NULL

TRUNCATE TABLE EMP1;

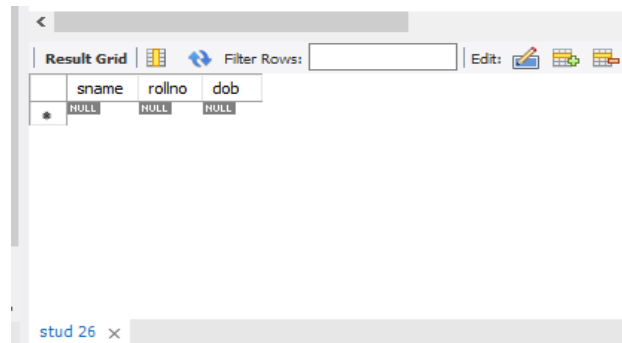
empno	ename	hiredate	salary	commision
NULL	NULL	NULL	NULL	NULL

DROP TABLE EMP1;

✓	65	10:50:12	DROP TABLE emp1	0 row(s) affected	0.750 sec
✗	66	10:50:21	select * from emp1 LIMIT 0, 1000	Error Code: 1146. Table 'myacc.emp1' doesn't exist	0.000 sec

```
CREATE TABLE STUD(SNAME VARCHAR(20) PRIMARY KEY, ROLLNO INT NOT NULL, DOB DATE NOT NULL);
```

```
SELECT * FROM STUD;
```

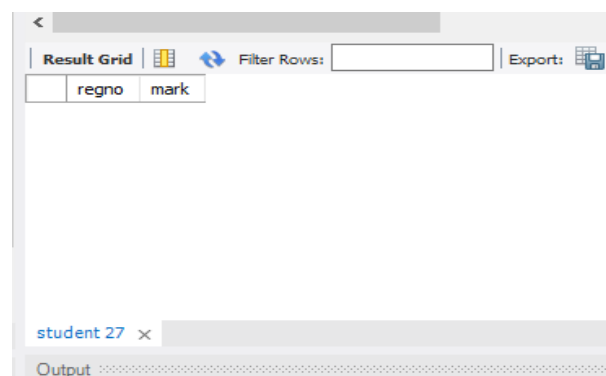


The screenshot shows a database query result grid for the STUD table. The grid has three columns: sname, rollno, and dob. The first row contains three NULL values, indicating that the table is currently empty. The interface includes a 'Filter Rows' search bar and an 'Edit' button. A tab labeled 'stud 26' is visible at the bottom.

	sname	rollno	dob
*	NULL	NULL	NULL

```
CREATE TABLE STUDENT (REGNO INT, MARK INT(3) CONSTRAINT B CHECK (MARK >=0 AND MARK <=100));
```

```
SELECT * FROM STUDENT;
```



The screenshot shows a database query result grid for the STUDENT table. The grid has two columns: regno and mark. The grid is currently empty. The interface includes a 'Filter Rows' search bar and an 'Export' button. A tab labeled 'student 27' is visible at the bottom, and an 'Output' section is at the very bottom.

	regno	mark
--	-------	------

```
CREATE TABLE CUST(CUSTID NUMBER(6) UNIQUE, NAME CHAR(10));
```



The screenshot shows a database query result grid for the CUST table. The grid has two columns: custid and Cname. The grid is currently empty. The interface includes a 'Filter Rows' search bar.

	custid	Cname
--	--------	-------

ADVANCED DBMS LAB**Experiment No.: 2****Name: SREELAKSHMI R****Roll No:41****Batch: B****Date:25-03-2022****Aim**

To familiarize DML commands SELECT, INSERT, UPDATE, DELETE

Questions

Create the following Tables and insert values.

Table 1: DEPOSIT

ACTNO VARCHAR2 (5) PRIMARY KEY, FIRST LETTER MUST START WITH 'D'
CNAME VARCHAR2 (15) FOREIGN KEY REFERENCES CUSTOMER
BNAME VARCHAR2 (20) FOREIGN 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 VARCHAR2(15) PRIMARY KEY
CITY VARCHAR (20) NOT NULL,

Table 4: BORROW

LOANNO VARCHAR2(8) PRIMARY KEY / FIRST LETTER MUST START WITH 'L'
CNAME VARCHAR2(15) FOREIGN KEY REFERENCES CUSTOMER
BNAME VARCHAR2(20) FOREIGN KEY REFERENCES BRANCH AMOUNT
NUMBER (8,2) NOT NULL, CANNOT BE 0

1. List all data from table deposit
2. List all data from borrow
3. List all data from customer
4. List all data from branch
5. Give account no and amount of deposit
6. Give customer name and account no of depositors
7. Give name of customers
8. Give name of branches
9. Give name of borrows
10. Give names of customer living in city Nagpur

11. Give names of depositors having amount greater than 4000
12. Give account date of Anil
13. Give name of all branches located in Bombay
14. Give name of borrower having loan number 1205
15. Give names of depositors having account at VRCE
16. Give names of all branched located in city Delhi
17. Give name of the customers who opened account date '1-12-96'
18. Give account no and deposit amount of customers having account opened between dates '1-12-96' and '1-5-96'
19. Give name of the city where branch KAROLBAGH is located
20. Give details of customer ANIL

Procedure

CREATE DATABASE ddl;

DEPOSIT

CREATE TABLE DEPOSIT (ACTNO VARCHAR (5) 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 DEPOSIT VALUES('D100','ANIL','VRCE',1000.00,'1995-03-01') ('D101', 'SUNIL', 'ANJNI',500.00,'1996-01-04'), ('D102','MEHUL','KAROLBAGH',3500.00,'1995-11-17'), ('D104', 'MADHURI', 'CHANDNI',1200.00,'1995-10-17'), ('D105','PRAMOD','MG ROAD',3000.00,'1996-0327'), ('D106','SANDIP','ANDHERI',2000.00,'1996-03-31'), ('D107','SHIVANI','VIRAR',1000.00,'1995-09-05'), ('D108','KRANTI','NEHRU PLACE',5000.00,'1995-07-02'), ('D109', 'MINU', 'POWAI', 7000.00,'1995-08-10');

BRANCH

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

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

CUSTOMER

CREATE TABLE CUSTOMER (CNAME VARCHAR (15) PRIMARY KEY, CITY VARCHAR (20) NOT NULL);

INSERT INTO CUSTOMER VALUES ('ANIL','CALCUTTA'), ('SUNIL','DELHI'), ('MEHUL', 'BARODA'), ('MANDAR','PATINA'), ('MADHURI','NAGPUR'), ('PRAMOD','NAGPUR'), ('SANDIP','SURAT'), ('SHIVANI','BOMBAY'), ('KRANIT','BOMBAY'), ('NAREN','BOMBAY');

BORROW

```
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), ('L206', 'MEHUL', 'AJNI',
5000.00), ('L311','SUNIL','DHARAMPETH',3000.00), ('L321','MADHURI','ANDHERI',2000.00),
('L371','PRAMOD','VIRAR',8000.00), ('L481','KRANTI','NEHRU PLACE',3000.00);
```

```
SELECT * FROM CUSTOMER;
```

```
SELECT * FROM BRANCH; SELECT
```

```
* FROM DEPOSIT;
```

```
SELECT * FROM BORROW;
```

Output Screenshot**DEPOSIT**

Result Grid					
Filter Rows:					
	ACTNO	CNAME	BNAME	AMOUNT	ADATE
▶	D100	ANIL	VRCE	1000	1995-03-01
	D101	SUNIL	ANJNI	500	1996-01-04
	D102	MEHUL	KAROLBAGH	3500	1995-11-17
	D104	MADHURI	CHANDNI	1200	1995-10-17
	D105	PRAMOD	MG ROAD	3000	1996-03-27
	D106	SANDIP	ANDHERI	2000	1996-03-31
	D107	SHIVANI	VIRAR	1000	1995-09-05
	D108	KRANTI	NEHRU PLACE	5000	1995-07-02
	D109	MINU	POWAI	7000	1995-08-10
*	NULL	NULL	NULL	NULL	NULL

DEPOSIT 4 ×

BRANCH

Result Grid		
Filter Rows:		
	BNAME	CITY
▶	AJNI	NAGPUR
	ANDHERI	BOMBAY
	CHANDNI	DELHI
	DHARAMPETH	NAGPUR
	KAROLBAGH	DELHI
	MG ROAD	BANGALORE
	NEHRU PALACE	DELHI
	POWAI	BOMBAY
	VRCE	NAGPUR
*	NULL	NULL

BRANCH 3 ×

CUSTOMER

Result Grid			Filter Rows:	Edit:
	CNAME	CITY		
▶	ANIL	CALCUTTA		
	KRANIT	BOMBAY		
	MADHURI	NAGPUR		
	MANDAR	PATINA		
	MEHUL	BARODA		
	NAREN	BOMBAY		
	PRAMOD	NAGPUR		
	SANDIP	SURAT		
	SHIVANI	BOMBAY		
	SUNIL	DELHI		
*	NULL	NULL		

CUSTOMER 2 ×

BORROW

Result Grid					Filter Rows:	Edit:
	LOANNO	CNAME	BNAME	AMOUNT		
▶	L201	ANIL	VRCE	1000		
	L206	MEHUL	AJNI	5000		
	L311	SUNIL	DHARAMPETH	3000		
	L321	MADHURI	ANDHERI	2000		
	L371	PRAMOD	VIRAR	8000		
	L481	KRANTI	NEHRU PLACE	3000		
*	NULL	NULL	NULL	NULL		

1. select * from DEPOSIT;

Result Grid						Filter Rows:	Edit:
	ACTNO	CNAME	BNAME	AMOUNT	ADATE		
▶	D100	ANIL	VRCE	1000	1995-03-01		
	D101	SUNIL	ANJNI	500	1996-01-04		
	D102	MEHUL	KAROLBAGH	3500	1995-11-17		
	D104	MADHURI	CHANDNI	1200	1995-10-17		
	D105	PRAMOD	MG ROAD	3000	1996-03-27		
	D106	SANDIP	ANDHERI	2000	1996-03-31		
	D107	SHIVANI	VIRAR	1000	1995-09-05		
	D108	KRANTI	NEHRU PLACE	5000	1995-07-02		
	D109	MINU	POWAI	7000	1995-08-10		
*	NULL	NULL	NULL	NULL	NULL		

DEPOSIT 1 ×

2. select * from BORROW;

Result Grid					Filter Rows:	Edit:
	LOANNO	CNAME	BNAME	AMOUNT		
▶	L201	ANIL	VRCE	1000		
	L206	MEHUL	AJNI	5000		
	L311	SUNIL	DHARAMPETH	3000		
	L321	MADHURI	ANDHERI	2000		
	L371	PRAMOD	VIRAR	8000		
	L481	KRANTI	NEHRU PLACE	3000		
*	NULL	NULL	NULL	NULL		

BORROW 2 ×

3. select * from CUSTOMER;

Result Grid		
	CNAME	CITY
▶	ANIL	CALCUTTA
	KRANIT	BOMBAY
	MADHURI	NAGPUR
	MANDAR	PATINA
	MEHUL	BARODA
	NAREN	BOMBAY
	PRAMOD	NAGPUR
	SANDIP	SURAT
	SHIVANI	BOMBAY
	SUNIL	DELHI
*	NULL	NULL

CUSTOMER 3 x

4. select * from BRANCH;

Result Grid		
	BNAME	CITY
▶	AJNI	NAGPUR
	ANDHERI	BOMBAY
	CHANDNI	DELHI
	DHARAMPETH	NAGPUR
	KAROLBAGH	DELHI
	MG ROAD	BANGALORE
	NEHRU PALACE	DELHI
	POWAI	BOMBAY
	VRCE	NAGPUR
*	NULL	NULL

BRANCH 4 x

5. select ACTNO, AMOUNT from DEPOSIT;

Result Grid		
	ACTNO	AMOUNT
▶	D 100	1000
	D 101	500
	D 102	3500
	D 104	1200
	D 105	3000
	D 106	2000
	D 107	1000
	D 108	5000
	D 109	7000
*	NULL	NULL

DEPOSIT 5 x

06. select CNAME, ACTNO from DEPOSIT;

Result Grid		
	CNAME	ACTNO
▶	ANIL	D 100
	SUNIL	D 101
	MEHUL	D 102
	MADHURI	D 104
	PRAMOD	D 105
	SANDIP	D 106
	SHIVANI	D 107
	KRANTI	D 108
	MINU	D 109
*	NULL	NULL

DEPOSIT 6 x

7. select CNAME from CUSTOMER;

Result Grid		Filter Rows:
CNAME		
▶ ANIL		
KRANIT		
MADHURI		
MANDAR		
MEHUL		
NAREN		
PRAMOD		
SANDIP		
SHIVANI		
SUNIL		
* NULL		

CUSTOMER 7 ×

8. select BNAME from BRANCH;

Result Grid		Filter Rows:	Edit:
BNAME			
▶ AJNI			
ANDHERI			
CHANDNI			
DHARAMPETH			
KAROLBAGH			
MG ROAD			
NEHRU PALACE			
POWAI			
VRCE			
* NULL			

BRANCH 8 ×

9. select CNAME from BORROW;

Result Grid		Filter Rows:
CNAME		
▶ ANIL		
MEHUL		
SUNIL		
MADHURI		
PRAMOD		
KRANTI		

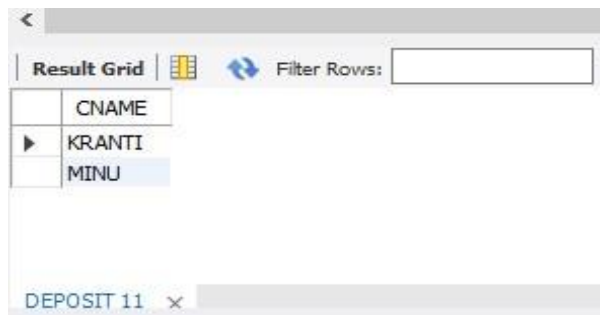
BORROW 9 ×

10. nselect CNAME from CUSTOMER where CITY='NAGPUR';

Result Grid		Filter Rows:
CNAME		
▶ MADHURI		
PRAMOD		
* NULL		

CUSTOMER 10 ×

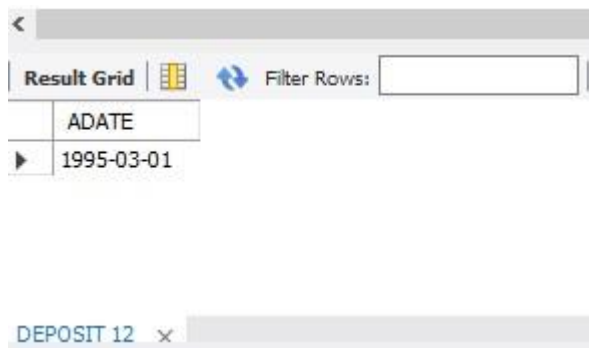
11. select CNAME from DEPOSIT where AMOUNT>4000;



The screenshot shows a database query result grid. The header row contains the column name 'CNAME'. Below it, there are two rows of data: 'KRANTI' and 'MINU'. The grid is titled 'DEPOSIT 11'.

CNAME
KRANTI
MINU

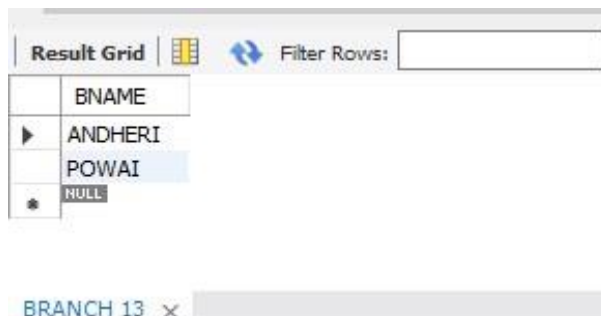
12. select ADATE from DEPOSIT where CNAME='ANIL';



The screenshot shows a database query result grid. The header row contains the column name 'ADATE'. Below it, there is one row of data: '1995-03-01'. The grid is titled 'DEPOSIT 12'.

ADATE
1995-03-01

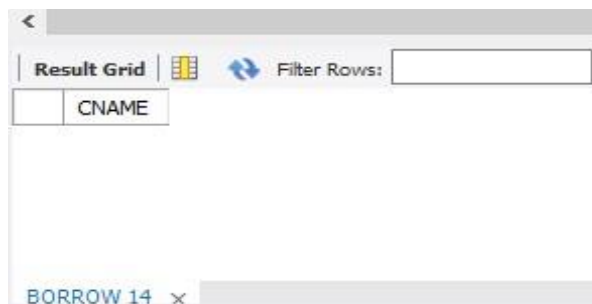
13. SELECT BNAME from BRANCH where CITY='Bombay';



The screenshot shows a database query result grid. The header row contains the column name 'BNAME'. Below it, there are three rows of data: 'ANDHERI', 'POWAI', and 'HULL'. The grid is titled 'BRANCH 13'.

BNAME
ANDHERI
POWAI
HULL

14. SELECT CNAME from BORROW where LOANNO='L205';



The screenshot shows a database query result grid. The header row contains the column name 'CNAME'. The grid is titled 'BORROW 14'.

CNAME

15. SELECT CNAME from DEPOSIT WHERE BNAME='VRCE';

Result Grid		Filter Rows:
	CNAME	
▶	ANIL	

DEPOSIT 15 ×

16. SELECT BNAME from BRANCH WHERE CITY='Delhi';

Result Grid		Filter Rows:
	BNAME	
▶	CHANDNI	
	KAROLBAGH	
	NEHRU PALACE	
*	NULL	

BRANCH 16 ×

17. SELECT CNAME from DEPOSIT WHERE ADATE='1996-12-1';

Result Grid		Filter Rows:
	CNAME	

DEPOSIT 17 ×

18. SELECT ACTNO, AMOUNT from DEPOSIT WHERE ADATE BETWEEN '1996-12-1' AND '1996-05-1';

Result Grid		Filter Rows:
	ACTNO	AMOUNT
*	NULL	NULL

DEPOSIT 18 ×

19. SELECT CITY from BRANCH WHERE BNAME='KAROLBAGH';

Result Grid		Filter Rows:
	CITY	
▶	DELHI	

BRANCH 19 ×

20. SELECT * from CUSTOMER join borrow on CUSTOMER.CNAME=BORROW.CNAME join deposit on DEPOSIT.CNAME=BORROW.CNAME WHERE CUSTOMER.CNAME='ANIL';

Result Grid											
Filter Rows:			Export:			Wrap Cell Content:					
	CNAME	CITY	LOANNO	CNAME	BNAME	AMOUNT	ACTNO	CNAME	BNAME	AMOUNT	ADATE
▶	ANIL	CALCUTTA	L201	ANIL	VRCE	1000	D100	ANIL	VRCE	1000	1995-03-01

Result 20	×
Output	

Questions

- 1.List total loan
- 2.List total deposit
- 3.List total loan taken from KAROLBAGH branch
- 4.List total deposit of customers having account date later than 1-Jan-96
- 5.List total deposit of customers living in city NAGPUR
- 6.List maximum deposit of customer living in Bombay
- 7.List total deposit of customer having branch in BOMBAY
- 8.Count total number of branch cities
- 9.Count total number of customers cities
- 10.Give branch names and branch wise deposit
- 11.Give city wise name and branch wise deposit
- 12.Give the branch wise loan of customer living in NAGPUR
- 13.Count total number of customers
- 14.Count total number of depositors branch wise
- 15.Count total number of depositors branch wise
- 16.Give maximum loan from branch VRCE
- 17.Give the number of customers who are depositors as well as borrowers

Name: SREELAKSHMI R

Roll No: 41

Batch: B

Date: 19-04-2022

Procedure

1. SELECT SUM(AMOUNT) FROM BORROW;

Result Grid		Filter Rows:
	SUM(AMOUNT)	
▶	22000	

Result 1 ×

2. SELECT SUM(AMOUNT) FROM DEPOSIT;

Result Grid		Filter Rows:
	SUM(AMOUNT)	
▶	24200	

Result 2 ×

3. SELECT MAX(AMOUNT) FROM BORROW WHERE BNAME ='KAROLBAGH';

Result Grid		Filter Rows:
	MAX(AMOUNT)	
▶	NULL	

Result 3 ×

4. SELECT SUM(AMOUNT) from deposit where adate>'1995-03-01';

Result Grid		Filter Rows:
	SUM(AMOUNT)	
▶	23200	

Result 4 ×

5. SELECT SUM(D1.AMOUNT) FROM DEPOSIT D1 , CUSTOMER C1 WHERE C1.CITY = 'NAGPUR' AND C1.CNAME = D1.CNAME;

Result Grid		Filter Rows:
	SUM(D1.AMOUNT)	
▶	4200	

Result 5 ×

6. SELECT MAX(D1.AMOUNT) FROM DEPOSIT D1 , CUSTOMER C1 WHERE C1.CITY = 'Bombay' AND C1.CNAME = D1.CNAME;

Result Grid		Filter Rows:
	MAX(D1.AMOUNT)	
▶	1000	

Result 6 ×

7. SELECT SUM(AMOUNT) from deposit,BRANCH where city='BOMBAY';

Result Grid		Filter Rows:
	SUM(AMOUNT)	
▶	48400	

Result 7 ×

8. SELECT COUNT(DISTINCT(CITY)) FROM BRANCH ;

Result Grid		Filter Rows:
	COUNT(DISTINCT(CITY))	
▶	4	

Result 8 ×

9. SELECT count(city) from CUSTOMER;

Result Grid		Filter Rows:
	count(city)	
▶	10	

Result 9 ×

10. SELECT BNAME , SUM(AMOUNT) FROM DEPOSIT GROUP BY BNAME;

Result Grid		Filter Rows:	Export:
	BNAME	SUM(AMOUNT)	
▶	VRCE	1000	
	ANJNI	500	
	KAROLBAGH	3500	
	CHANDNI	1200	
	MG ROAD	3000	
	ANDHERI	2000	
	VIRAR	1000	
	NEHRU PLACE	5000	
	POWAI	7000	

Result 10 ×

11. SELECT C1.CITY , SUM(D1.AMOUNT) FROM CUSTOMER C1 , DEPOSIT D1 WHERE D1.CNAME = C1.CNAME GROUP BY C1.CITY;

Result Grid			Filter Rows:	Export:
	CITY	SUM(D1.AMOUNT)		
▶	CALCUTTA	1000		
	DELHI	500		
	BARODA	3500		
	NAGPUR	4200		
	SURAT	2000		
	BOMBAY	1000		

Result 11 ×

12. SELECT BNAME , SUM(AMOUNT) FROM BORROW

Result Grid			Filter Rows:	Export:
	BNAME	SUM(AMOUNT)		
▶	VRCE	2000		
	AJNI	10000		
	DHARAMPETH	6000		
	ANDHERI	4000		
	VIRAR	16000		
	NEHRU PLACE	6000		

Result 12 ×

13. OW,CUSTOMER WHERE city ='NAGPUR' GROUP BY BNAME;

Result Grid			Filter Rows:
	count(cname)		
▶	10		

Result 13 ×

14. SELECT count(cname) from CUSTOMER;

Result Grid			Filter Rows:	Export:
	BNAME	count(*)		
▶	VRCE	1		
	ANJNI	1		
	KAROLBAGH	1		
	CHANDNI	1		
	MG ROAD	1		
	ANDHERI	1		
	VIRAR	1		

Result 14 ×

15. SELECT BNAME, count(*) from DEPOSIT, CUSTOMER where deposit.CNAME = CUSTOMER.CNAME group by BNAME;

Result Grid		
	BNAME	count(*)
▶	VRCE	1
	ANJNI	1
	KAROLBAGH	1
	CHANDNI	1
	MG ROAD	1
	ANDHERI	1
	VIRAR	1

Result 15 ×

16. SELECT BNAME, count(*) from DEPOSIT, CUSTOMER where deposit.CNAME = CUSTOMER.CNAME group by BNAME;

Result Grid		
	MAX(AMOUNT)	
▶	1000	

Result 16 ×

17. select count(customer.CNAME) from customer where customer.CNAME IN (select deposit.cname from deposit) and customer.CNAME IN (select borrow.cname from borrow);

Result Grid		
	count(customer.CNAME)	
▶	5	

Result 17 ×

ADVANCED DBMS LAB**Experiment No.: 3****Aim**

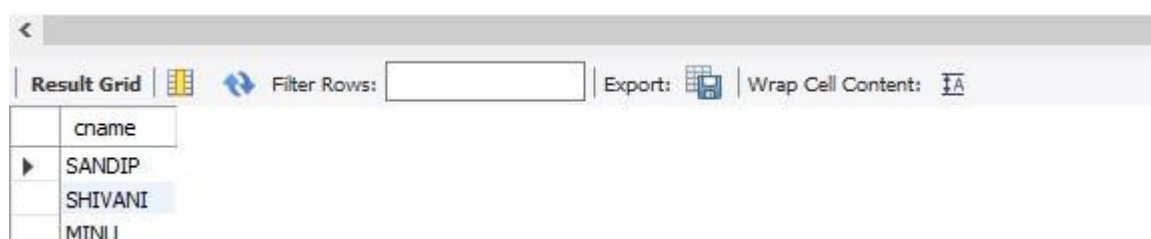
To familiarize with set operations

QUESTION

1. List all the customers who are depositors but not borrowers.
2. List all the customers who are both depositors and borrowers
3. List all the depositors having deposit in all the branches where Sunil is having Account
4. List all the customers living in city NAGPUR and having branch city
BOMBAY or DELHI
5. List all the depositors living in city NAGPUR
6. List all the depositors living in the city NAGPUR and having branch in city BOMBAY
7. List the branch cities of Anil and Sunil
8. List the customers having deposit greater than 1000 and loan less than 10000.
9. List the cities of depositors having branch VRCE.
10. List the depositors having amount less than 1000 and living in the same city as Anil
11. List all the cities where branches of Anil and Sunil are located
12. List the amount for the depositors living in the city where Anil is living

PROCEDURE AND OUTPUT SCREENSHOT

1. Select cname from deposit where cname not in (select cname from borrow);



	cname
▶	SANDIP
	SHIVANI
	MINU

2. SELECT CNAME FROM DEPOSIT UNION(SELECT CNAME FROM BORROW);

Result Grid	
	CNAME
▶	ANIL
	SUNIL
	MEHUL
	MADHURI
	PRAMOD
	SANDIP
	SHIVANI
	KRANTI
	MINU

3. SELECT D1.CNAME FROM DEPOSIT D1 WHERE D1.BNAME IN (SELECT D2.BNAME FROM DEPOSIT D2 WHERE D2.CNAME= 'SUNIL');

Result Grid	
	CNAME
▶	SUNIL

4. SELECT C1.CNAME FROM CUSTOMER C1,DEPOSIT D1, BRANCH B1 WHERE C1.CITY = 'NAGPUR' AND C1.CNAME = D1.CNAME AND D1.BNAME = B1.BNAME AND B1.CITY IN ('BOMBAY','DELHI');

Result Grid	
	CNAME
▶	MADHURI

5. SELECT Distinct(CUSTOMER.CNAME) from CUSTOMER,DEPOSIT WHERE City='NAGPUR';



The screenshot shows a database query result grid. The toolbar includes a 'Result Grid' button, a 'Filter Rows' input field, an 'Export' button, and a 'Wrap Cell Content' button. The table has one column labeled 'CNAME' and two rows of data: 'PRAMOD' and 'MADHURI'.

CNAME
PRAMOD
MADHURI

6. SELECT C1.CNAME FROM CUSTOMER C1,DEPOSIT D1, BRANCH B1 WHERE C1.CITY = 'NAGPUR' AND C1.CNAME = D1.CNAME AND D1.BNAME = B1.BNAME AND B1.CITY IN ('BOMBAY');



The screenshot shows a database query result grid. The toolbar includes a 'Result Grid' button, a 'Filter Rows' input field, an 'Export' button, and a 'Wrap Cell Content' button. The table has one column labeled 'CNAME'.

CNAME

7. SELECT B1.CITY FROM DEPOSIT D1, BRANCH B1 WHERE D1.BNAME = B1.BNAME AND D1.CNAME IN ('SUNIL','ANIL');



The screenshot shows a database query result grid. The toolbar includes a 'Result Grid' button, a 'Filter Rows' input field, an 'Export' button, and a 'Wrap Cell Content' button. The table has one column labeled 'CITY' and one row of data: 'NAGPUR'.

CITY
NAGPUR

8 . SELECT DISTINCT D1.CNAME FROM deposit D1, borrow B1 WHERE D1.AMOUNT>1000 AND B1.AMOUNT<10000;

CNAME
MEHUL
MADHURI
PRAMOD
SANDIP
KRANTI
MINU

9.SELECT B1.CITY FROM deposit D1, branch B1 WHERE D1.BNAME=B1.BNAME AND B1.BNAME='VRCE';

CITY
NAGPUR

10.SELECT D1.CNAME FROM DEPOSIT D1, CUSTOMER C1, CUSTOMER C2 WHERE C1.CITY=C2.CITY AND C2.CNAME ='ANIL' AND C1.CNAME AND D1.AMOUNT <1000;

CNAME

11.SELECT B1.CITU FROM BRANCH B1 WHERE B1.BNAME IN(SELECT D1.BNAME FROM DEPOSIT D1.CNAME IN('ANIL' , 'SUNIL'));

CITY
NAGPUR

12.SELECT DISTINCT(D1.CNAME),D1.AMOUNT ,C1.CITY FROM deposit D1, CUSTOMER C1, BRANCH B1 WHERE D1.CNAME=C1.CNAME AND C1.CITY IN(SELECT C2.CITY FROM customer C2 WHERE C2.CNAME='ANIL');

CNAME	AMOUNT	CITY
ANIL	1000	CALCUTTA

ADVANCED DBMS LAB**Experiment No.: 4****Aim**

To familiarize with join or cartesian product


Name: SREELAKSHMI R**Roll No:41****Batch:RMCA S2B****Date:6-05-2022****QUESTIONS**

1. Give name of customers having living city BOMBAY and branch city NAGPUR
2. Give names of customers having the same living city as their branch city
3. Give names of customers who are borrowers as well as depositors and having city NAGPUR.
4. Give names of borrowers having deposit amount greater than 1000 and loan amount greater than 2000.
5. Give names of depositors having the same branch as the branch of Sunil
6. Give names of borrowers having loan amount greater than the loan amount of Pramod
7. Give the name of the customer living in the city where branch of depositor Sunil is located.
8. Give branch city and living city of Pramod
9. Give branch city of Sunil and branch city of Anil
10. Give the living city of Anil and the living city of Sunil.

PROCEDURE AND OUTPUT

1. SELECT D1.CNAME,D1.BNAME,C1.CNAME,C1.CITY,B1.CITY,B1.BNAME
FROM DEPOSIT D1,CUSTOMER C1,BRANCH B1 WHERE C1.CITY = 'BOMBAY' AND
B1.CITY = 'NAGPUR' AND D1.CNAME = C1.CNAME AND D1.BNAME = B1.BNAME;

Result Grid



Filter Rows:

Expo

CNAME	BNAME	CNAME	CITY	CITY	BNAME
-------	-------	-------	------	------	-------

2. SELECT distinct(customer.CNAME), BRANCH.CITY FROM BRANCH, customer
WHERE BRANCH.city = customer.city;

CNAME	CITY
Kranti	Bombay
Madhuri	Nagpur
Naren	Bombay
Pramod	Nagpur
Shivani	Bombay

3. SELECT C1.CNAME FROM CUSTOMER C1,DEPOSIT D1,BORROW B1 WHERE
C1.CITY='NAGPUR' AND C1.CNAME=D1.CNAME AND D1.CNAME = B1.CNAME;

CNAME
Madhuri
Pramod

4. SELECT BR1.CNAME, BR1.AMOUNT, D1.CNAME, D1.AMOUNT FROM
BORROW BR1,DEPOSIT D1 WHERE D1.CNAME = BR1.CNAME AND D1.AMOUNT >
1000 AND BR1.AMOUNT > 2000;

CNAME	AMOUNT	CNAME	AMOUNT
Pramod	3000.00	Pramod	3000
Mehul	5000.00	Mehul	3500
Sunil	3000.00	Sunil	5000
Kranti	5000.00	Kranti	5000

5. SELECT D1.CNAME FROM DEPOSIT D1 WHERE D1.BNAME IN (SELECT
D2.BNAME FROM DEPOSIT D2 WHERE D2.CNAME = 'SUNIL');

CNAME
Sunil

6. SELECT BR1.CNAME,BR1.AMOUNT FROM BORROW BR1 WHERE
BR1.AMOUNT > ALL (SELECT BR2.AMOUNT FROM BORROW BR2 WHERE
BR2.CNAME = 'PRAMOD');

CNAME	AMOUNT
Mehul	5000.00
Kranti	5000.00

7. SELECT C.CNAME FROM CUSTOMER C WHERE C.CITY IN (SELECT B.CITY
FROM BRANCH B WHERE B.BNAME IN (SELECT D.BNAME FROM DEPOSIT D
WHERE D.CNAME='SUNIL'));

CNAME
Madhuri
Pramod

8. SELECT B1.CITY , C1.CITY FROM BRANCH B1,CUSTOMER C1, DEPOSIT D1
WHERE C1.CNAME = 'PRAMOD' AND C1.CNAME = D1.CNAME AND D1.BNAME =
B1.BNAME;

CITY	CITY
Bangalore	Nagpur

9. SELECT B1.CITY FROM DEPOSIT D1, BRANCH B1 WHERE D1.BNAME =
B1.BNAME AND D1.CNAME IN ('SUNIL' , 'ANIL');

CITY
Nagpur
Nagpur

10. SELECT C1.CNAME, C1.CITY FROM CUSTOMER C1 WHERE C1.CNAME =
'ANIL' OR C1.CNAME = 'SUNIL';

CNAME	CITY
Anil	Calcutta
Sunil	Delhi

ADVANCED DBMS LAB**Experiment No.: 5****Aim**

To familiarize with Group by and Having clause

Questions

1. List the branches having sum of deposit more than 5000.
2. List the branches having sum of deposit more than 500 and located in city BOMBAY
3. List the names of customers having deposited in the branches where the average deposit is more than 5000.
4. List the names of customers having maximum deposit
5. List the name of branch having highest number of depositors?
6. Count the number of depositors living in NAGPUR.
7. Give names of customers in VRCE branch having more deposit than any other customer in same branch
8. Give the names of branch where number of depositors is more than 5
9. Give the names of cities in which the maximum number of branches are located
10. Count the number of customers living in the city where branch is located

PROCEDURE AND OUTPUT

1. `SELECT D.BNAME FROM DEPOSIT D, BRANCH B WHERE D.BNAME=B.BNAME AND B.CITY='BOMBAY' GROUP BY D.BNAME HAVING SUM(D.AMOUNT)>5000;`

	BNAME
▶	POWAI

2. `SELECT D.BNAME FROM DEPOSIT D, BRANCH B ,customer c WHERE D.BNAME=B.BNAME and c.city='bombay' GROUP BY D.BNAME HAVING SUM(D.AMOUNT)>500;`

BNAME
VRCE
KAROLBAGH
CHANDNI
MG ROAD
POWAI

3. SELECT CNAME FROM DEPOSIT WHERE AMOUNT=(SELECT AVG(AMOUNT) FROM DEPOSIT GROUP BY BNAME HAVING AVG(AMOUNT)>5000);

CNAME
MINU

4. SELECT MAX(AMOUNT),CNAME FROM deposit;

MAX(AMOUNT)	CNAME
7000	ANIL

5. SELECT D1.BNAME FROM DEPOSIT D1 GROUP BY D1.BNAME HAVING COUNT(D1.CNAME) >= ALL (SELECT COUNT(D2.CNAME) FROM DEPOSIT D2 GROUP BY D2.BNAME);

BNAME
VRCE
ANJNI
KAROLBAGH
CHANDNI
MG ROAD
ANDHERI
VIRAR
NEHRU PLACE
POWAI

6. SELECT COUNT(DEPOSIT.CNAME)FROM DEPOSIT,CUSTOMER WHERE CUSTOMER.CITY='NAGPUR';

count(deposit.cname)
9

7. SELECT CNAME FROM DEPOSIT WHERE BNAME='VRCE' AND AMOUNT=(SELECT MAX(AMOUNT) FROM DEPOSIT WHERE BNAME='VRCE');

CNAME
ANIL

8. SELECT BNAME FROM DEPOSIT GROUP BY BNAME HAVING COUNT(BNAME)>5;

BNAME

9. SELECT C.CNAME ,COUNT(B.BNAME) FROM CUSTOMER C INNER JOIN BRANCH B ON C.CNAME=B.BNAME GROUP BY C.CNAME ORDER BY COUNT(B.BNAME) DESC;

CNAME	count(B.BNAME)
-------	----------------

10. SELECT COUNT(B1.BNAME) FROM DEPOSIT D1 , BORROW B1 , CUSTOMER C1 WHERE C1.CNAME=D1.CNAME AND D1.CNAME=B1.CNAME AND C1.CITY IN (SELECT CITY FROM CUSTOMER);

count(b1.bname)
5

ADVANCED DBMS LAB**Experiment No.: 6****Aim**

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

COMMANDS

- 1.CREATE TABLE MARKS(MARKID INT PRIMARY KEY AUTO_INCREMENT,NAME VARCHAR(20),TOTAL_MARKS INT);
- 2.CREATE TRIGGER MARK_TRIGGER AFTER INSERT ON STUDENTINFO FOR EACH ROW INSERT INTO MARKS(NAME,TOTAL_MARKS) VALUES(new.NAME,new.TOTAL);
- 3.INSERT INTO STUDENTINFO(ID,NAME,SUBJ1,SUBJ2,SUBJ3) values(104,'SREE',40,30,20),(105,'JOEL',30,45,35),(106,'STEBIN',25,44,39);
- 4.SELECT *FROM MARKS;

OUTPUT SCREENSHOT

MARKID	NAME	TOTAL_MARKS
1	SREE	90
2	JOEL	110
3	STEBIN	108
NULL	NULL	NULL

ID	NAME	SUBJ1	SUBJ2	SUBJ3	TOTAL	percentage
101	LIBIYA	35	40	25	100	67
102	SRUTHY	44	29	35	108	72
103	SREELAKSHMI	45	39	31	115	77
104	SREE	40	30	20	90	60
105	JOEL	30	45	35	110	73
106	STEBIN	25	44	39	108	72
NULL	NULL	NULL	NULL	NULL	NULL	NULL

Aim

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

Name: SREELAKSHMI R

Roll No: 41

Batch:RMCA B

Date: 10-06-2022

PROCEDURE

step 1: start

step 2: create table student

step 3: create trigger on student table

step 4: insert records

step 5: select the table to see if the triggers has been executed

step 6: stop

COMMANDS

1.CREATE DATABASE STUDENTD;

2.USE STUDENTD;

3.CREATE TABLE STUDENTINFO(ID INT PRIMARY KEY , NAME VARCHAR(20) NOT NULL, SUBJ1 INT,SUBJ2 INT,SUBJ3 INT ,TOTAL INT , percentage INT);

4.CREATE TRIGGER MARKCHANGE BEFORE INSERT ON STUDENTINFO FOR EACH ROW SET new.total=new.SUBJ1+new.SUBJ2+new.SUBJ3,new.percentage=new.total/150*100;

5.INSERT INTO studentinfo(ID,NAME,SUBJ1,SUBJ2,SUBJ3) VALUES(103,'SREELAKSHMI',45,39,31);

6.INSERT INTO studentinfo(ID,NAME,SUBJ1,SUBJ2,SUBJ3) VALUES(101,'LIBIYA',35,40,25);

7.INSERT INTO studentinfo(ID,NAME,SUBJ1,SUBJ2,SUBJ3) VALUES(102,'SRUTHY',44,29,35);

8.SELECT *FROM STUDENTINFO;

OUTPUT SCREENSHOT

ID	NAME	SUBJ1	SUBJ2	SUBJ3	TOTAL	percentage
101	LIBIYA	35	40	25	100	67
102	SRUTHY	44	29	35	108	72
103	SREELAKSHMI	45	39	31	115	77
NULL	NULL	NULL	NULL	NULL	NULL	NULL

Experiment No.: 7

Aim

Installation of MongoDB on Windows

Procedure

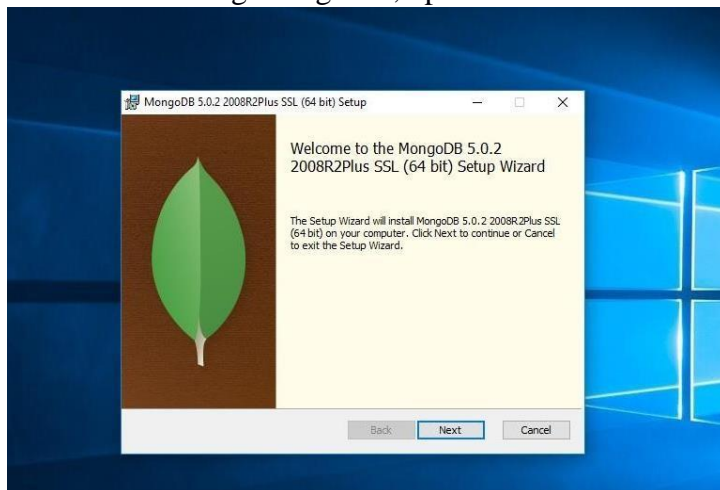
The installers for MongoDB are available in both the 32-bit and 64-bit format. The 32-bit installers are good for development and test environments. But for production environments you should use the 64-bit installers. Otherwise, you can be limited to the amount of data that can be stored within MongoDB.

Download & Install MongoDB on Windows

The following steps can be used to install MongoDB on Windows 10:

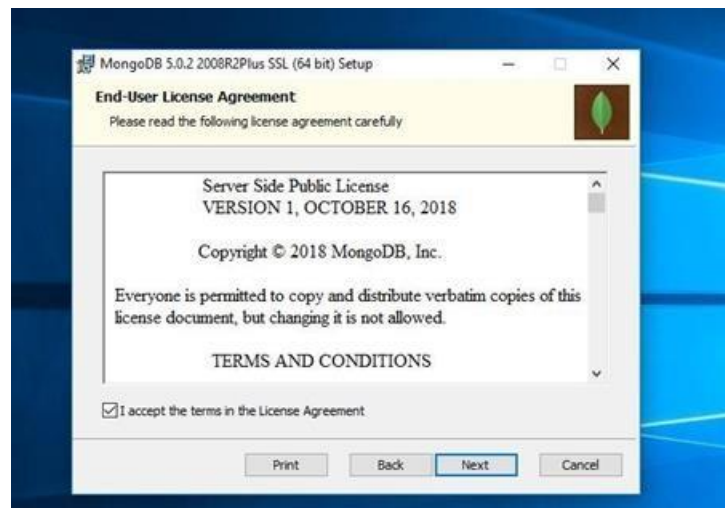
Step 1:

After downloading MongoDB, open the msi file and click next.



Step 2:

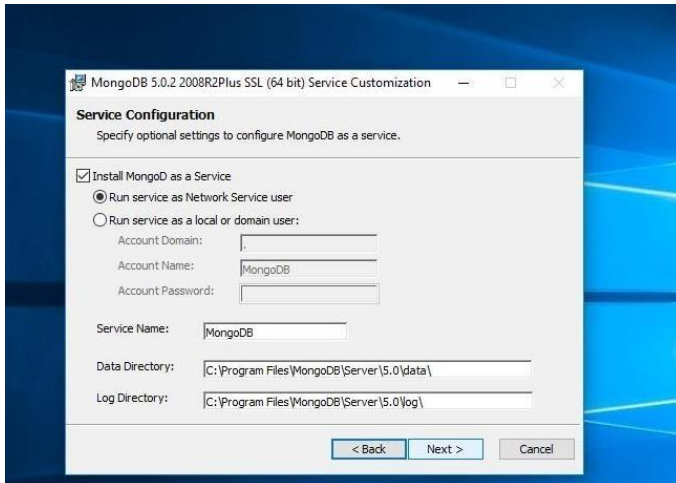
Accept the End-User License Agreement And Click Next



Step 3:

Click on the "complete" button to install all of the components. The custom option can be used to install selective components or if you want to change the location of the installation.

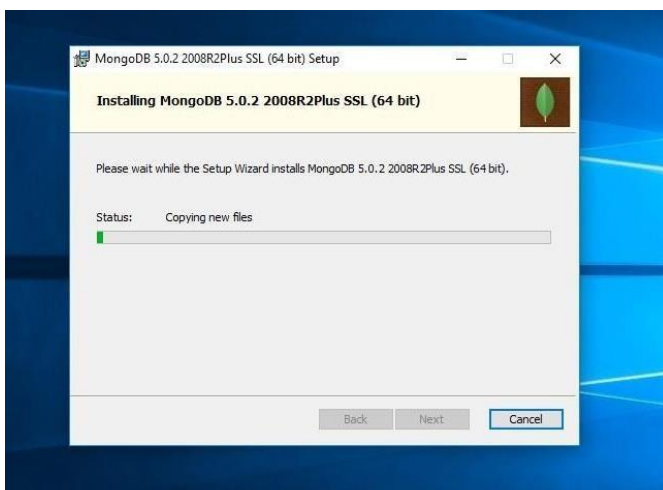
1. Select "Run service as Network Service user". Make a note of the data directory, we'll need this later.
2. Click Next

**Step 4:**

Click on the Install button to start the installation. Installation begins.

Click next once completed.

Click on the Finish button to complete the installation.



The first screenshot shows the 'Privacy Settings' dialog box in MongoDB Compass. It contains the following options:

- ☒ **Enable Product Feedback Tool**
Enables a tool for sending feedback or talking to our Product and Development teams directly from Compass.
- ☒ **Enable Geographic Visualizations**
Allow Compass to make requests to a 3rd party mapping service.
- ☒ **Enable Crash Reports**
Allow Compass to send crash reports containing stack traces and unhandled exceptions.
- ☒ **Enable Usage Statistics**
Allow Compass to send anonymous usage statistics.
- ☒ **Enable Automatic Updates**
Allow Compass to periodically check for new updates.

With any of these options, none of your personal information or stored data will be submitted. [Learn more: MongoDB Privacy Policy](#)

Start Using Compass

The second screenshot shows the 'New Connection' screen. It includes a text input field for the connection string (SRV or Standard) with the example: `e.g. mongodb+srv://username:password@cluster0-jtqxd.mongodb.net/admin`. A **Connect** button is present. To the right, there is a section for 'New to Compass and don't have a cluster?' with a **CREATE FREE CLUSTER** button. Below that, there are links for 'How do I find my connection string in Atlas?' and 'How do I format my connection string?'.

The third screenshot shows the 'Databases' view in MongoDB Compass. The left sidebar shows the 'Local' database selected. The main area displays a table of databases:

Database Name	Storage Size	Collections	Indexes
admin	20.0KB	0	1
config	4.0KB	0	2
local	20.0KB	1	1

Experiment No.: 8**Aim**

Designing Databases using NoSQL: MongoDB

Name: SREEELAKSHMI R

Roll No:41

Batch: MCA -B

Date:24-05-2022


Procedure

Download correct mongodb driver for PHP, based on your PHP

version, Architecture and whether Thread Safety is enabled. You can get that information from the phpinfo page.

Do the following steps to install and configure MongoDB driver on Windows XAMPP Server.

1. Download the latest stable version of the PHP MongoDB driver from following URL
<https://pecl.php.net/package/mongodb>.

Available Releases			
Version	State	Release Date	Downloads
1.3.2	stable	2017-10-30	mongodb-1.3.2.tgz (904.0kB) 
1.3.1	stable	2017-10-16	mongodb-1.3.1.tgz (904.0kB) 
1.3.0	stable	2017-09-19	mongodb-1.3.0.tgz (906.1kB) 

2. Extract the archive File.
3. Copy the php_mongodb.dll file from the extracted folder to the PHP extension directory. this is usually the "C:\xampp\php\ext" folder in XAMPP Server.
4. Open the php.ini file inside your PHP installation (C:\xampp\php) and add the following line:
extension=php_mongodb.dll
5. Save the file and close it. Restart the Apache web server.

Test MongoDB Connection From PHP Script

Let's write a very simple PHP program that creates a connection to the MongoDB server and dump the connection status.

Add following PHP code to your php script and access from the Web browser. The above PHP example will output something similar to:

```
<?php
```

```
$connection = new MongoDB\Driver\Manager("mongodb://localhost:27017");  
var_dump($connection);  
?>
```

Result

```
object(MongoDB\Driver\Manager)#1 (2) { ["uri"]=> string(25) "mongodb://localhost:27017"  
["cluster"]=> array(1) { [0]=> array(11) { ["host"]=> string(9) "localhost" ["port"]=>  
int(27017) ["type"]=> int(0) ["is_primary"]=> bool(false) ["is_secondary"]=> bool(false)  
["is_arbiter"]=> bool(false) ["is_hidden"]=> bool(false) ["is_passive"]=> bool(false) ["tags"]=>  
array(0) { } ["last_is_master"]=> array(0) { } ["round_trip_time"]=> int(-1) } } }
```

ADVANCED DBMS LAB**EXPERIMENTNO:9****AIM:**

Query Processing : Performing CRUD operations with NoSQL database

PROCEDURE:**1.CREATE**

use databasename : To create Database.

```
> use db1
switched to db db1
```

show dbs :Listing All Databases.

```
> show dbs
AJCE      0.000GB
admin     0.000GB
config    0.000GB
local     0.000GB
mca2023a  0.000GB
```

db.createCollection: Creating Collections(Tables).

```
> db.createCollection("mydb")
{ "ok" : 1 }
> db.createCollection("movie")
{ "ok" : 1 }
```

show Collections :To show Collections.

```
> show collections
developers
employees
movie
mydb
```

Name:Sreelakshmi R

RollNo:41

Batch: MCA

Date : 3-06-2022

Insert():Inserting Values to Collection

my_project_db.movie

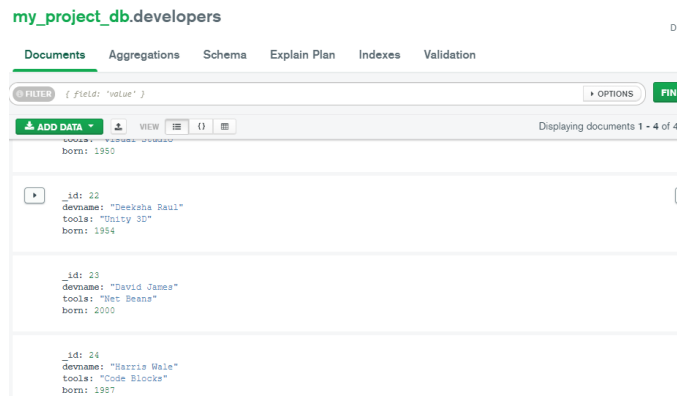
InsertMany():

Amal Jyothi College of Engineering, Kanjirappally2

2.READ

Find():

```
> db.movie.find()
{ "_id" : ObjectId("629987c9542a9d332df6fc69"), "name" : "Avengers: Endgame" }
{ "_id" : ObjectId("62998ffd542a9d332df6fc6a"), "name" : "Avengers: Infinity War" }
{ "_id" : ObjectId("62998ffd542a9d332df6fc6b"), "name" : "Avengers: Endgame" }
> db.developers.find()
{ "_id" : 20, "devname" : "John Wick", "tools" : "Visual Studio", "born" : 1948 }
{ "_id" : 21, "devname" : "Ganesh Roy", "tools" : "Net Beans", "born" : 1945 }
{ "_id" : 22, "devname" : "Deeksha Raul", "tools" : "Unity 3D", "born" : 1954 }
```



3.UPDATE

Update():

```
> db.developers.update({"devname":"Deeksha Raul"},{$set:{"devname":"meena"}})
WriteResult({ "nMatched" : 1, "nUpserted" : 0, "nModified" : 1 })
> db.developers.find()
{ "_id" : 20, "devname" : "John Wick", "tools" : "Visual Studio", "born" : 1948 }
{ "_id" : 21, "devname" : "Ganesh Roy", "tools" : "Net Beans", "born" : 1945 }
{ "_id" : 22, "devname" : "meena", "tools" : "Unity 3D", "born" : 1954 }
```

UpdateMany();

```
> db.developers.updateMany({"devname":"Johnny"}, { $set: {location: "USA"}})
{ "acknowledged" : true, "matchedCount" : 1, "modifiedCount" : 1 }
> db.developers.find()
{ "_id" : 20, "devname" : "Johnny", "tools" : "Visual Studio", "born" : 1948, "location" : "USA" }
{ "_id" : 21, "devname" : "Ganesh Roy", "tools" : "Net Beans", "born" : 1945 }
{ "_id" : 22, "devname" : "meena", "tools" : "Unity 3D", "born" : 1954 }
```

4.DELETE

DeleteOne():

```
> db.developers.deleteOne({ location: "USA" })
{ "acknowledged" : true, "deletedCount" : 1 }
> db.developers.find()
{ "_id" : 21, "devname" : "Ganesh Roy", "tools" : "Net Beans", "born" : 1945 }
{ "_id" : 22, "devname" : "meena", "tools" : "Unity 3D", "born" : 1954 }
```

DeleteMany():

```
> db.movie.deleteMany({ })
{ "acknowledged" : true, "deletedCount" : 3 }
> db.movie.find()
>
```


Experiment No.: 10**Aim**

PHP form data to mongodb

PROCEDURE

<?php

```
$con = new MongoDB\Driver\Manager('mongodb://localhost:27017');
```

```
if(isset($_POST["submit"])){ $name=$_POST["name"];
```

```
$last_name=$_POST["lastname"];
```

```
$rollno=$_POST["rollno"];
```

```
$passwd=$_POST["password"]; global
```

```
$con;
```

```
$writer=new MongoDB\Driver\Bulkwrite;
```

```
$writer->insert(["name"=>$name,"
```

```
rollno"=>$rollno,"passwd"=>$passwd,"lastname"
```

```
=>$last_name]);
```

```
$con->executeBulkWrite('jesdb.insertion',$writer);
```

```
die(); }
```

```
?>
```

<html>

<head>

 <title>Document</title>

</head>

<body>

 <h2>insert to mongo</h2>

 <form action="" method="POST">

 <input type="text" name="name" placeholder="name">

Name: SREELAKSHMI R

Roll No: 41

Batch: RMCA-B

Date:06/06/2022

```
<input type="number" name="rollno" placeholder="rollno">
<input type="password" name="password" placeholder="password">
<input type="text" name="lastname" placeholder="lastname">
<input type="submit" name="submit">
</form>
</body>
</html>
```

OUTPUT

