

Smart Bridge Assignment2

1)create ,update delete commands in MYSQL

Coding

```
SHOW DATABASES;
```

```
CREATE DATABASE bookshop;
```

```
CREATE TABLE book(
```

```
bk_id INT PRIMARY KEY,
```

```
bk_name VARCHAR(30),
```

```
bk_author VARCHAR (30),
```

```
bk_price DECIMAL(15)
```

```
);
```

```
DESCRIBE book;
```

```
INSERT INTO book VALUES (1,"Fish of story" ,"Jhonson.J",250);
```

```
INSERT INTO book VALUES (2,"A better india" ,"Narayna moorthy",480);
```

```
INSERT INTO book VALUES (3,"A revenue stamp" ,"Amrita pritam",500);
```

```
INSERT INTO book VALUES (4,"Death of a city" ,"Vikram seth",250);
```

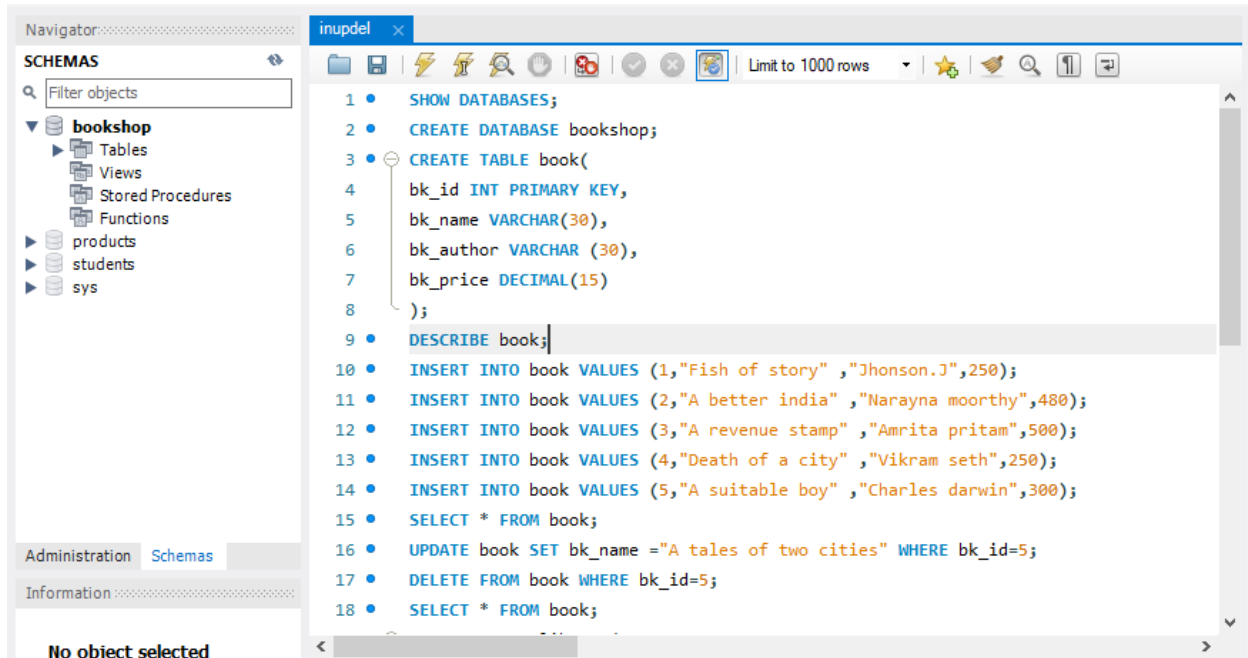
```
INSERT INTO book VALUES (5,"A suitable boy" ,"Charles darwin",300);
```

```
SELECT * FROM book;
```

```
UPDATE book SET bk_name ="A tales of two cities" WHERE bk_id=5;
```

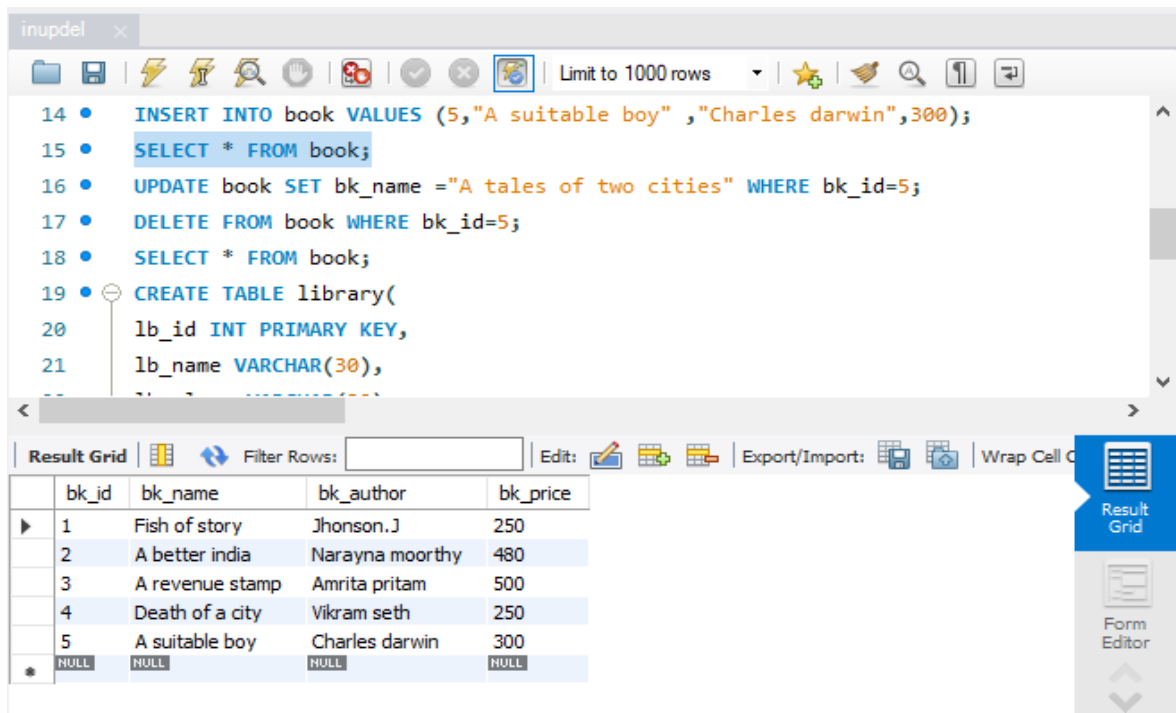
```
DELETE FROM book WHERE bk_id=5;
```

```
SELECT * FROM book;
```



Output

Table creation



Update

Navigator: SCHEMAS

Filter objects

- bookshop
 - Tables
 - Views
 - Stored Procedures
 - Functions
- products
- students
- sys

Administration Schemas

Information

inupdel x

Limit to 1000 rows

```

14 • INSERT INTO book VALUES (5,"A suitable boy" ,"Charles darwin",300);
15 • SELECT * FROM book;
16 • UPDATE book SET bk_name ="A tales of two cities" WHERE bk_id=5;
17 • DELETE FROM book WHERE bk_id=5;
18 • SELECT * FROM book;
19 • CREATE TABLE library(
20   lb_id INT PRIMARY KEY,
21   lb_name VARCHAR(30),
22   lb_place VARCHAR(30)

```

Result Grid

bk_id	bk_name	bk_author	bk_price
1	Fish of story	Jhonson.J	250
2	A better india	Narayna moorthy	480
3	A revenue stamp	Amrita pritam	500
4	Death of a city	Vikram seth	250
5	A tales of two cities	Charles darwin	300
NULL	NULL	NULL	NULL

Result Grid

Form Editor

Delete

Navigator: SCHEMAS

Filter objects

- bookshop
 - Tables
 - Views
 - Stored Procedures
 - Functions
- products
- students
- sys

Administration Schemas

Information

inupdel x

Limit to 1000 rows

```

15 • SELECT * FROM book;
16 • UPDATE book SET bk_name ="A tales of two cities" WHERE bk_id=5;
17 • DELETE FROM book WHERE bk_id=5;
18 • SELECT * FROM book;
19 • CREATE TABLE library(
20   lb_id INT PRIMARY KEY,
21   lb_name VARCHAR(30),
22   lb_place VARCHAR(30)

```

Result Grid

bk_id	bk_name	bk_author	bk_price
1	Fish of story	Jhonson.J	250
2	A better india	Narayna moorthy	480
3	A revenue stamp	Amrita pritam	500
4	Death of a city	Vikram seth	250
NULL	NULL	NULL	NULL

Result Grid

Form Editor

2)joins IN MYSQL

INNER JOIN

```
SHOW DATABASES;
```

```
CREATE DATABASE bookshop;
```

```
CREATE TABLE book(
```

```
bk_id INT PRIMARY KEY,
```

```
bk_name VARCHAR(30),
```

```
bk_author VARCHAR (30),
```

```
bk_price DECIMAL(15)
```

```
);
```

```
DESCRIBE book;
```

```
INSERT INTO book VALUES (1,"Fish of story" ,"Jhonson.J",250);
```

```
INSERT INTO book VALUES (2,"A better india" ,"Narayna moorthy",480);
```

```
INSERT INTO book VALUES (3,"A revenue stamp" ,"Amrita pritam",500);
```

```
INSERT INTO book VALUES (4,"Death of a city" ,"Vikram seth",250);
```

```
INSERT INTO book VALUES (5,"A suitable boy" ,"Charles darwin",300);
```

```
SELECT * FROM book;
```

```
UPDATE book SET bk_name ="A tales of two cities" WHERE bk_id=5;
```

```
DELETE FROM book WHERE bk_id=5;
```

```
SELECT * FROM book;
```

```
CREATE TABLE library(
```

```
lb_id INT PRIMARY KEY,
```

```
lb_name VARCHAR(30),
```

```
lb_place VARCHAR(30)
```

```
);
```

DESCRIBE library;

INSERT INTO library VALUES (1,"EVR library","Kerala");

INSERT INTO library VALUES (2,"Roja muthiah Research Libray","chennai");

INSERT INTO library VALUES (3,"Daniel poor memorial Library","Madurai");

INSERT INTO library VALUES (4,"Saraswathi Mahal Library","Tanjore");

INSERT INTO library VALUES (5,"Mahavi bharathi library","erode");

SELECT * FROM library;

SELECT * FROM book;

SELECT book.bk_id,book.bk_name,book.bk_author,library.lb_name

FROM book

INNER JOIN library ON book.bk_id=library.lb_id;

SELECT book.bk_id,book.bk_name,book.bk_author,library.lb_name

FROM book

left JOIN library ON book.bk_id=library.lb_id;

SELECT book.bk_id,book.bk_name,book.bk_author,library.lb_name

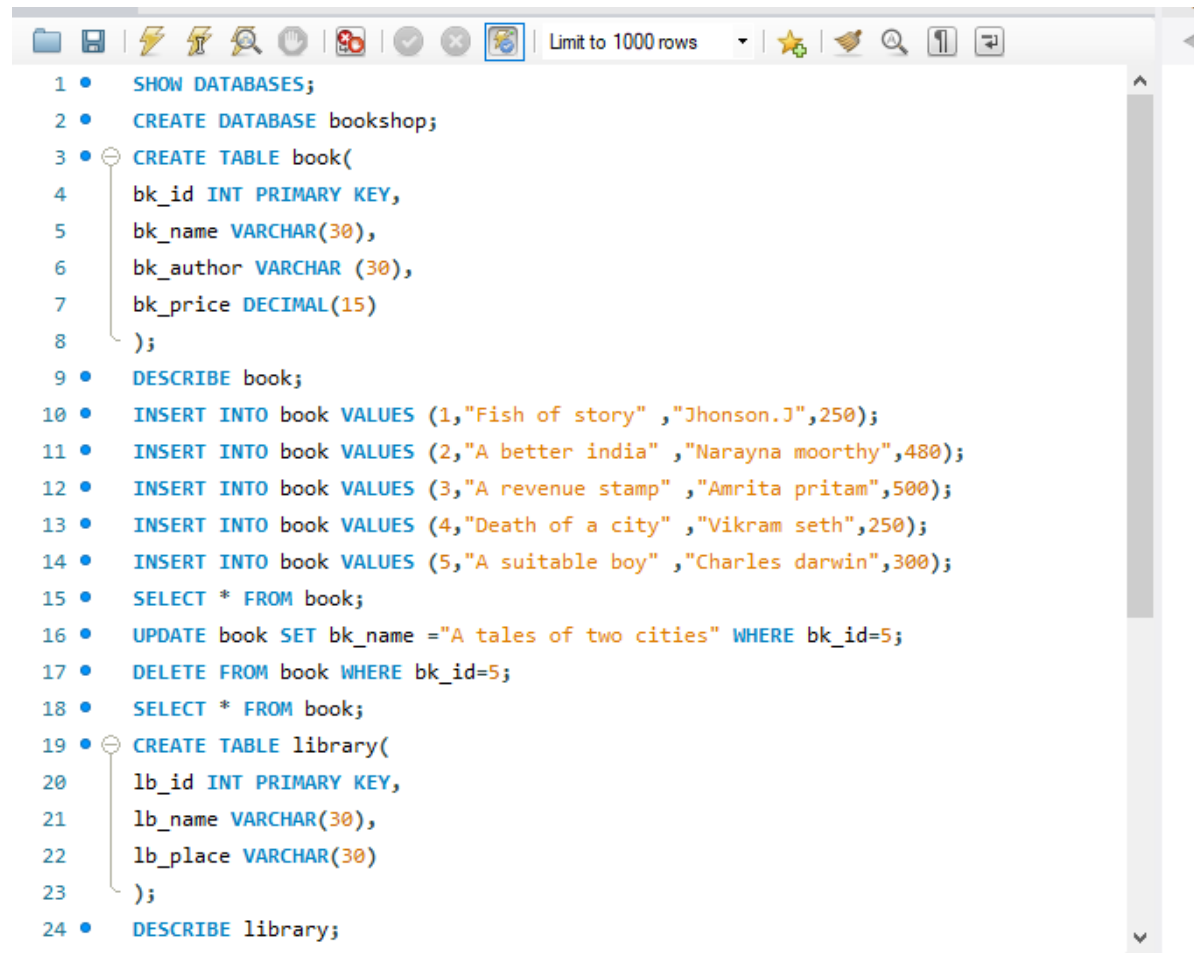
FROM book

RIGHT JOIN library ON book.bk_id=library.lb_id;

SELECT book.bk_id,book.bk_name,book.bk_author,library.lb_name

FROM book

CROSS JOIN library;



The image shows a screenshot of a SQL IDE window. The window has a toolbar at the top with various icons for file operations, execution, and search. Below the toolbar, there is a list of SQL commands numbered 1 through 24. The commands are as follows:

```
1 • SHOW DATABASES;
2 • CREATE DATABASE bookshop;
3 • CREATE TABLE book(
4     bk_id INT PRIMARY KEY,
5     bk_name VARCHAR(30),
6     bk_author VARCHAR (30),
7     bk_price DECIMAL(15)
8 );
9 • DESCRIBE book;
10 • INSERT INTO book VALUES (1,"Fish of story" ,"Jhonson.J",250);
11 • INSERT INTO book VALUES (2,"A better india" ,"Narayna moorthy",480);
12 • INSERT INTO book VALUES (3,"A revenue stamp" ,"Amrita pritam",500);
13 • INSERT INTO book VALUES (4,"Death of a city" ,"Vikram seth",250);
14 • INSERT INTO book VALUES (5,"A suitable boy" ,"Charles darwin",300);
15 • SELECT * FROM book;
16 • UPDATE book SET bk_name ="A tales of two cities" WHERE bk_id=5;
17 • DELETE FROM book WHERE bk_id=5;
18 • SELECT * FROM book;
19 • CREATE TABLE library(
20     lb_id INT PRIMARY KEY,
21     lb_name VARCHAR(30),
22     lb_place VARCHAR(30)
23 );
24 • DESCRIBE library;
```

Navigator: inupdel

SCHEMAS

Filter objects

- bookshop
 - Tables
 - Views
 - Stored Procedures
 - Functions
- products
- students
- sys

Administration Schemas

Information

No object selected

```

15 • SELECT * FROM book;
16 • UPDATE book SET bk_name ="A tales of two cities" WHERE bk_id=5;
17 • DELETE FROM book WHERE bk_id=5;
18 • SELECT * FROM book;
19 • CREATE TABLE library(
20     lb_id INT PRIMARY KEY,
21     lb_name VARCHAR(30),
22     lb_place VARCHAR(30)
23 );
24 • DESCRIBE library;
25 • INSERT INTO library VALUES (1,"EVR library","Kerala");
26 • INSERT INTO library VALUES (2,"Raja muthiah Research Library","chennai");
27 • INSERT INTO library VALUES (3,"Daniel poor memorial Library","Madurai");
28 • INSERT INTO library VALUES (4,"Saraswathi Mahal Library","Tanjore");
29 • INSERT INTO library VALUES (5,"Mahavi bhharathi library","erode");
30 • SELECT * FROM library;
31 • SELECT * FROM book;
32 • SELECT book.bk_id,book.bk_name,book.bk_author,library.lb_name
33 FROM book
34 INNER JOIN library ON book.bk_id=library.lb_id;
35
36
37
38

```

Output

Navigator: inupdel

SCHEMAS

Filter objects

- bookshop
 - Tables
 - Views
 - Stored Procedures
 - Functions
- products
- students
- sys

Administration Schemas

Information

```

28 • INSERT INTO library VALUES (4,"Saraswathi Mahal Library","Tanjore");
29 • INSERT INTO library VALUES (5,"Mahavi bhharathi library","erode");
30 • SELECT * FROM library;
31 • SELECT * FROM book;
32 • SELECT book.bk_id,book.bk_name,book.bk_author,library.lb_name
33 FROM book
34 INNER JOIN library ON book.bk_id=library.lb_id;
35

```

Result Grid

bk_id	bk_name	bk_author	lb_name
1	Fish of story	Jhonson.J	EVR library
2	A better india	Narayna moorthy	Raja muthiah Research Library
3	A revenue stamp	Amrita pritam	Daniel poor memorial Library
4	Death of a city	Vikram seth	Saraswathi Mahal Library
5	A suitable boy	Charles darwin	Mahavi bhharathi library

Result 7 x Read Only

Left Join

Navigator: SCHEMAS

Filter objects

- bookshop
 - Tables
 - Views
 - Stored Procedures
 - Functions
- products
- students
- sys

Administration Schemas Information

inupdel x

Limit to 1000 rows

```

29 • INSERT INTO library VALUES (5,"Mahavi bharathi library","erode");
30 • SELECT * FROM library;
31 • SELECT * FROM book;
32 • SELECT book.bk_id,book.bk_name,book.bk_author,library.lb_name
33 FROM book
34 INNER JOIN library ON book.bk_id=library.lb_id;
35 • SELECT book.bk_id,book.bk_name,book.bk_author,library.lb_name
36 FROM book
37 left JOIN library ON book.bk_id=library.lb_id;

```

Result Grid

	bk_id	bk_name	bk_author	lb_name
▶	1	Fish of story	Jhonson.J	EVR library
	2	A better india	Narayna moorthy	Roja muthiah Research Library
	3	A revenue stamp	Amrita pritam	Daniel poor memorial Library
	4	Death of a city	Vikram seth	Saraswathi Mahal Library
	5	A suitable boy	Charles darwin	Mahavi bharathi library

Result Grid Form Editor

Right join

Navigator: SCHEMAS

Filter objects

- bookshop
 - Tables
 - Views
 - Stored Procedures
 - Functions
- products
- students
- sys

Administration Schemas Information

inupdel x

Limit to 1000 rows

```

32 • SELECT book.bk_id,book.bk_name,book.bk_author,library.lb_name
33 FROM book
34 INNER JOIN library ON book.bk_id=library.lb_id;
35 • SELECT book.bk_id,book.bk_name,book.bk_author,library.lb_name
36 FROM book
37 left JOIN library ON book.bk_id=library.lb_id;
38 • SELECT book.bk_id,book.bk_name,book.bk_author,library.lb_name
39 FROM book
40 RIGHT JOIN library ON book.bk_id=library.lb_id;

```

Result Grid

	bk_id	bk_name	bk_author	lb_name
▶	1	Fish of story	Jhonson.J	EVR library
	2	A better india	Narayna moorthy	Roja muthiah Research Library
	3	A revenue stamp	Amrita pritam	Daniel poor memorial Library
	4	Death of a city	Vikram seth	Saraswathi Mahal Library
	5	A suitable boy	Charles darwin	Mahavi bharathi library

Result Grid Form Editor

No object selected

Cross join

The screenshot shows a database management tool interface. On the left, a 'Navigator' pane displays a 'SCHEMAS' tree with a 'bookshop' database containing tables, views, stored procedures, and functions. The main editor shows a SQL query for a cross join between 'book' and 'library' tables. The query is as follows:

```

34 INNER JOIN library ON book.bk_id=library.lb_id;
35 • SELECT book.bk_id,book.bk_name,book.bk_author,library.lb_name
36 FROM book
37 left JOIN library ON book.bk_id=library.lb_id;
38 • SELECT book.bk_id,book.bk_name,book.bk_author,library.lb_name
39 FROM book
40 RIGHT JOIN library ON book.bk_id=library.lb_id;
41 • SELECT book.bk_id,book.bk_name,book.bk_author,library.lb_name
42 FROM book
43 CROSS JOIN library;

```

Below the query editor, the 'Result Grid' is displayed, showing the output of the cross join. The grid has four columns: 'bk_id', 'bk_name', 'bk_author', and 'lb_name'. The data is as follows:

bk_id	bk_name	bk_author	lb_name
1	Fish of story	Jhonson.J	Mahavi bharathi library
1	Fish of story	Jhonson.J	Saraswathi Mahal Library
1	Fish of story	Jhonson.J	Daniel poor memorial Library
1	Fish of story	Jhonson.J	Roja muthiah Research Libray
1	Fish of story	Jhonson.J	EVR library
2	A better india	Narayna moorthy	Mahavi bharathi library
2	A better india	Narayna moorthy	Saraswathi Mahal Library
2	A better india	Narayna moorthy	Daniel poor memorial Library

3) create tables, update and delete in MONGODB

Create

MongoDB Compass - localhost:27017/Sample.student
Connect Edit View Collection Help

localhost:27017 Documents Sample.student

My Queries Databases Search PracticeDB Employee SoftwareEngineers Sample faculty student

Sample.student

2 DOCUMENTS 1 INDEXES

Documents Aggregations Schema Explain Plan Indexes Validation

Filter Type a query: { field: 'value' } Reset Find More Options

ADD DATA EXPORT DATA 1-1 of 1

```
{
  "_id": ObjectId("647457fd2d9b683aede994e8"),
  "studentName": "xyz",
  "studentaddress": "blg"
}
```

```
> _MONGOSH
> db.student.insertOne({'studentName':'abc'})
< {
  acknowledged: true,
  insertedId: ObjectId("6474571a2d9b683aede994e7")
}
> db.student.countDocuments()
< 1
> db.student.insertOne({'studentName':'xyz', 'age':20})
< {
  acknowledged: true,
  insertedId: ObjectId("647457fd2d9b683aede994e8")
}
```

Update

MongoDB Compass - localhost:27017/Sample.student
Connect Edit View Collection Help

localhost:27017 Documents Sample.student

My Queries Databases Search PracticeDB Employee SoftwareEngineers Sample faculty student

Sample.student

2 DOCUMENTS 1 INDEXES

Documents Aggregations Schema Explain Plan Indexes Validation

Filter Type a query: { field: 'value' } Reset Find More Options

ADD DATA EXPORT DATA 1-1 of 1

```
{
  "_id": ObjectId("647457fd2d9b683aede994e8"),
  "studentName": "xyz",
  "studentaddress": "blg"
}
```

```
> _MONGOSH
> db.student.updateOne({'studentName':'abc'}, {$set: {'studentaddress':'chennai'}})
< {
  acknowledged: true,
  insertedId: null,
  matchedCount: 1,
  modifiedCount: 1,
  upsertedCount: 0
}
> db.student.deleteOne({'studentName':'abc'})
< {
  acknowledged: true,
```

Delete

MongoDB Compass - localhost:27017/Sample.student

Connect Edit View Collection Help

localhost:27017 Documents Sample.student

My Queries Databases Search

PracticeDB Employee SoftwareEngineers Sample faculty student

Sample.student 2 DOCUMENTS 1 INDEXES

Documents Aggregations Schema Explain Plan Indexes Validation

Filter Type a query: { field: 'value' } Reset Find More Options

ADD DATA EXPORT DATA 1 - 1 of 1

```
{ "_id": ObjectId("647457fd2d9b683aede994e8"), "studentName": "xyz", "studentaddress": "blg" }
```

```
> .MONGOSH
{
  insertedId: null,
  matchedCount: 1,
  modifiedCount: 1,
  upsertedCount: 0
}
> db.student.deleteOne({studentName:"abc"})
< {
  acknowledged: true,
  deletedCount: 1
}
Sample>
```

Windows taskbar: Type here to search, 01:34 PM, 29-05-2023