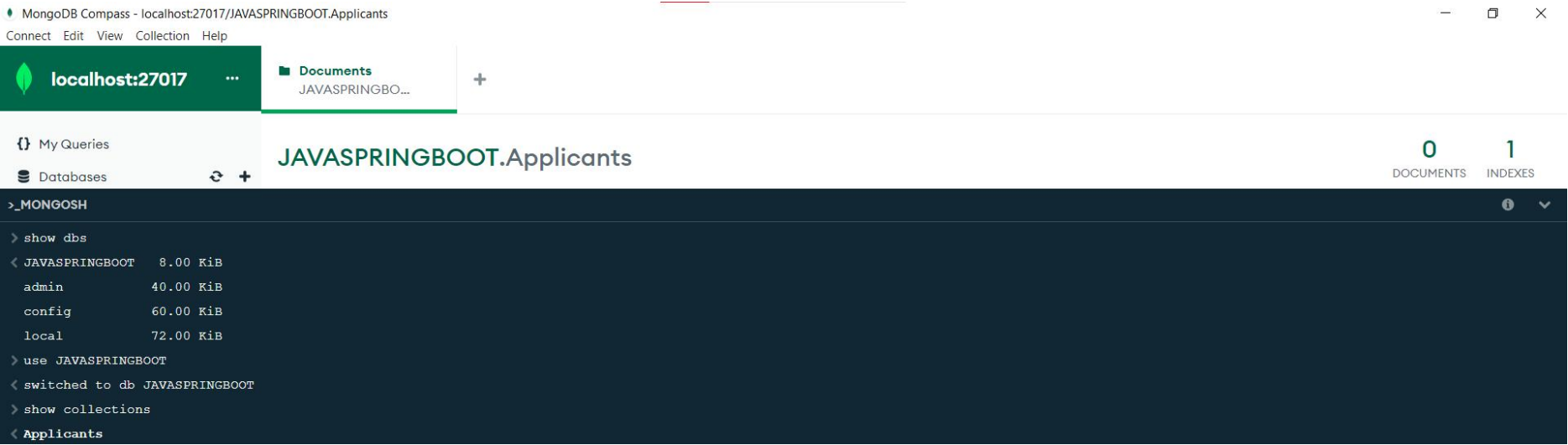
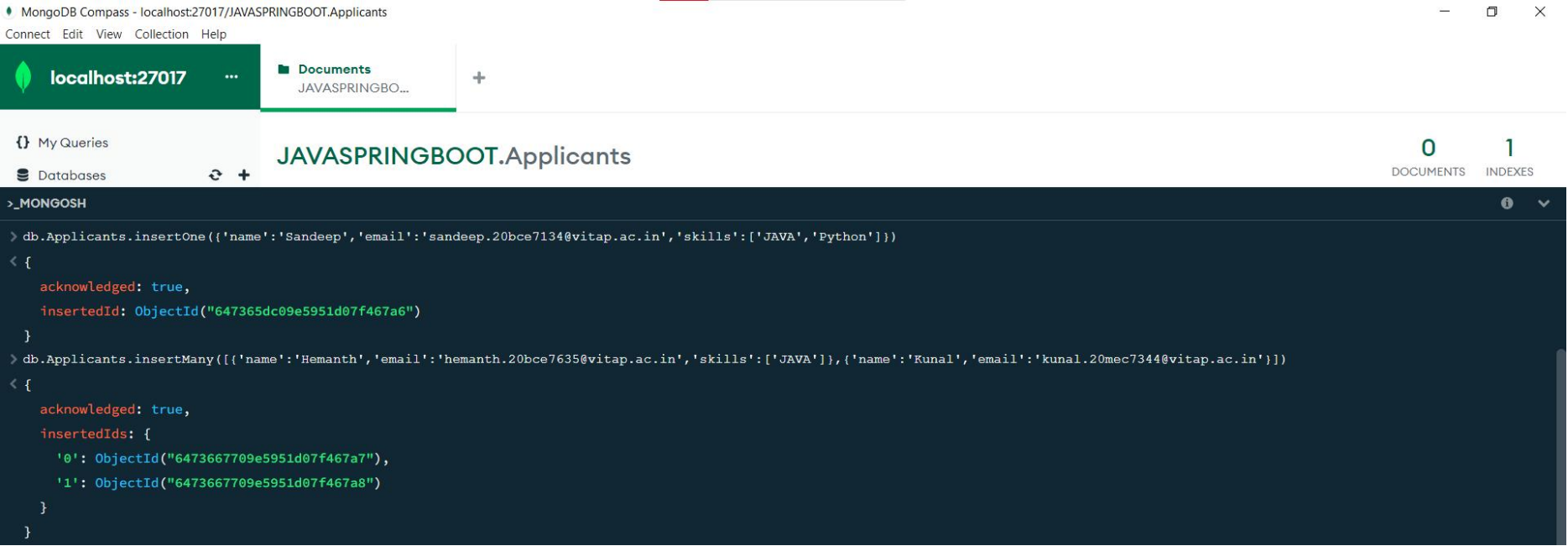


1. Mongo DB :



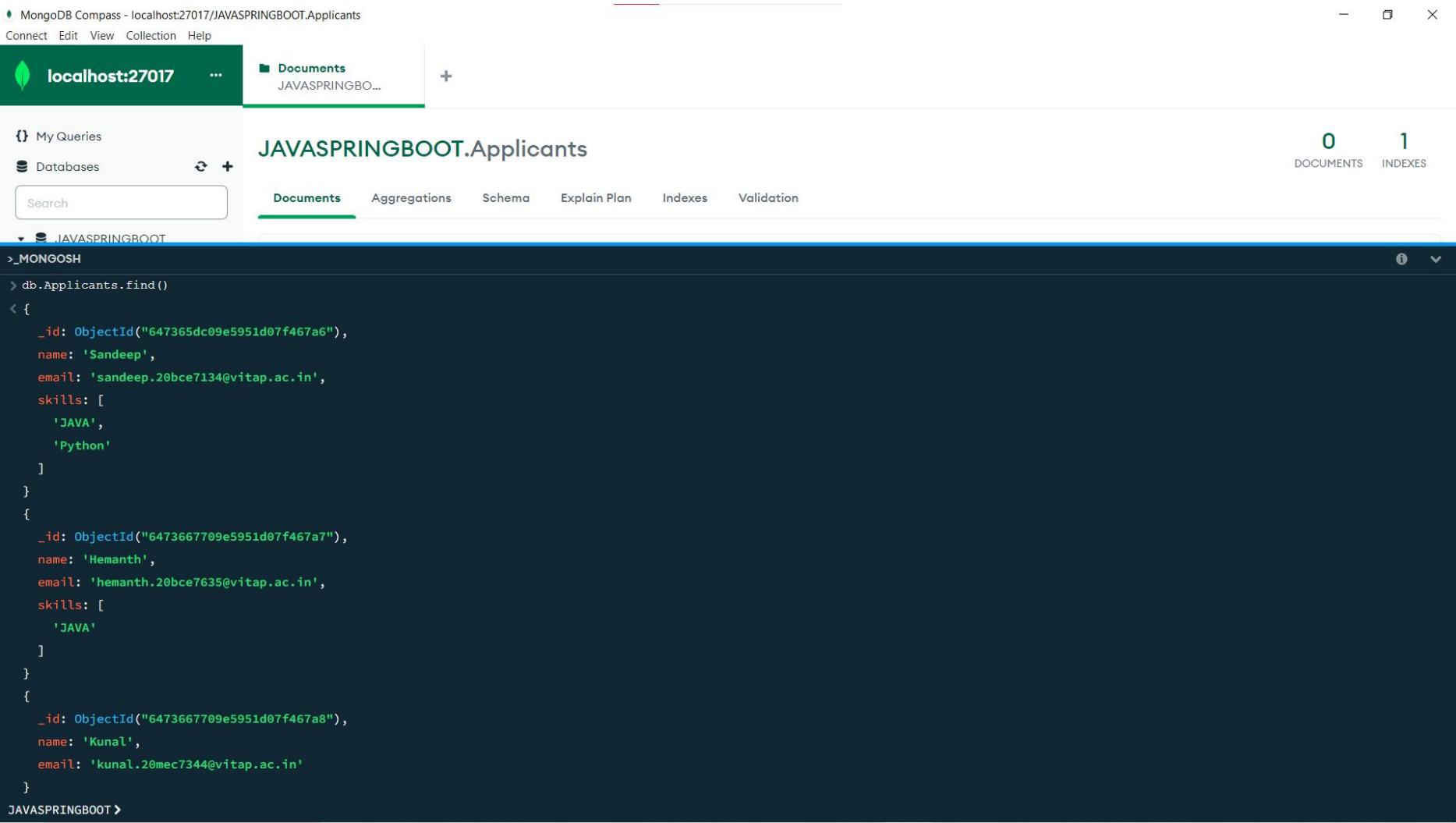
Create :

1. `db.collectionName.insertOne({document})`: Inserts a single document into a collection.
2. `db.collectionName.insertMany([{document1}, {document2}, ...])`: Inserts multiple documents into a collection.



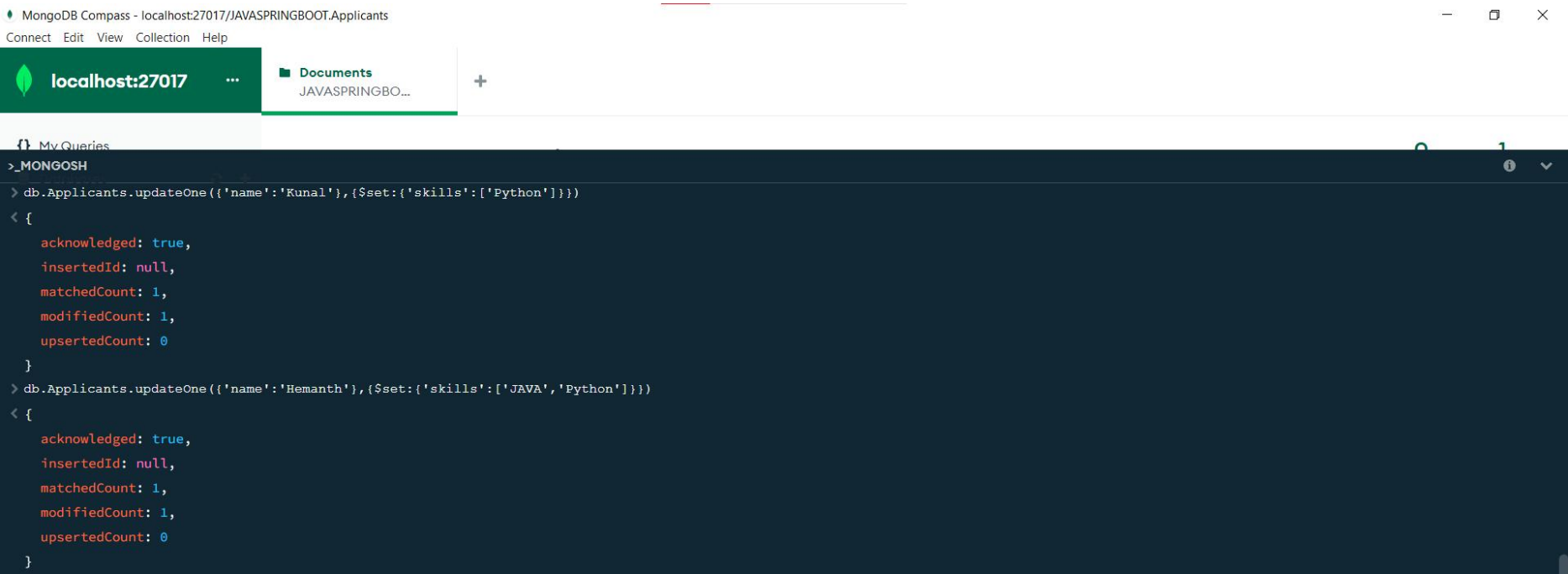
Read :

1. `db.collectionName.find()`:



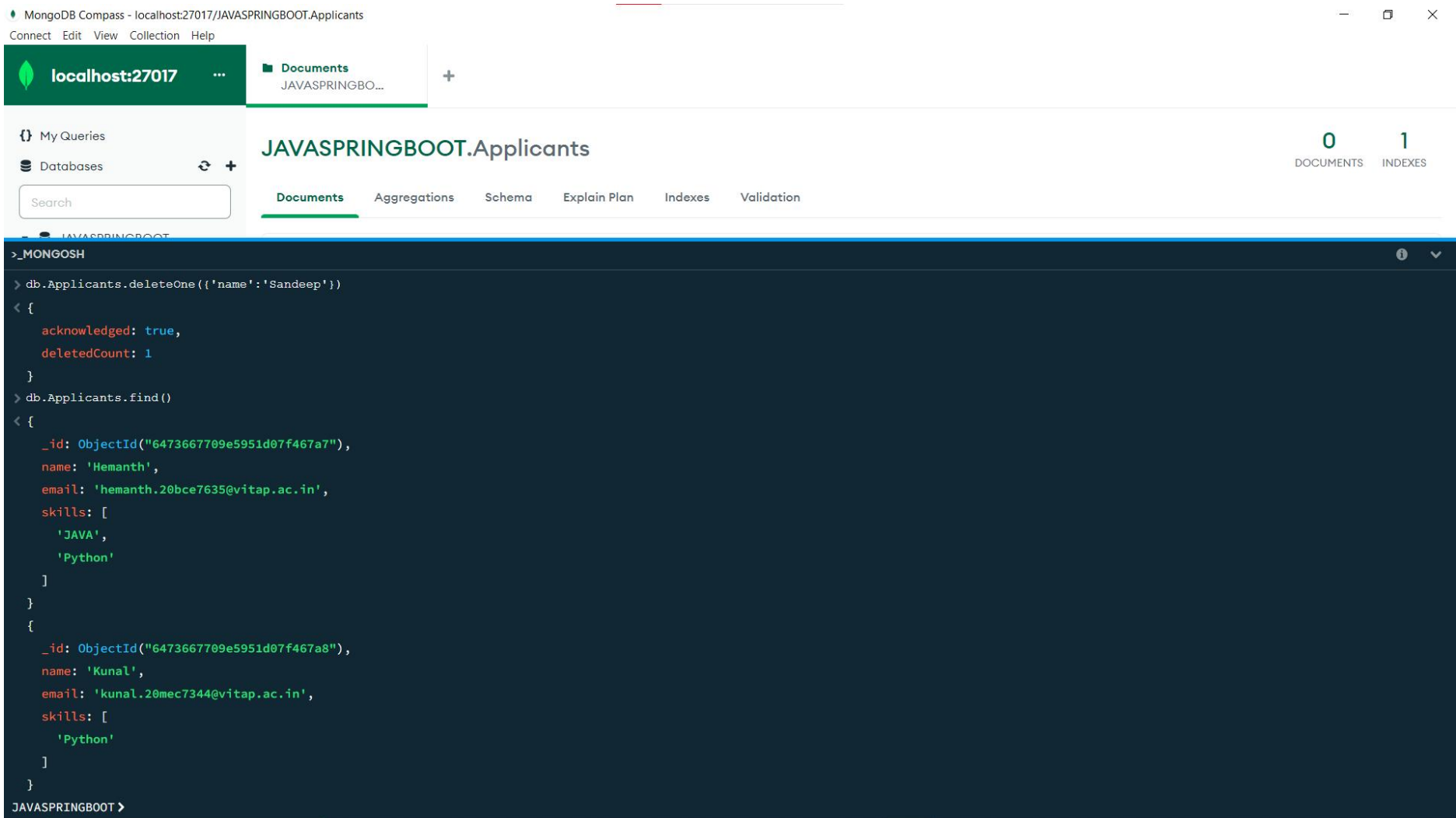
Update :

1. `db.collectionName.updateOne({filter}, {update})`: Updates a single document in a collection that matches the filter.

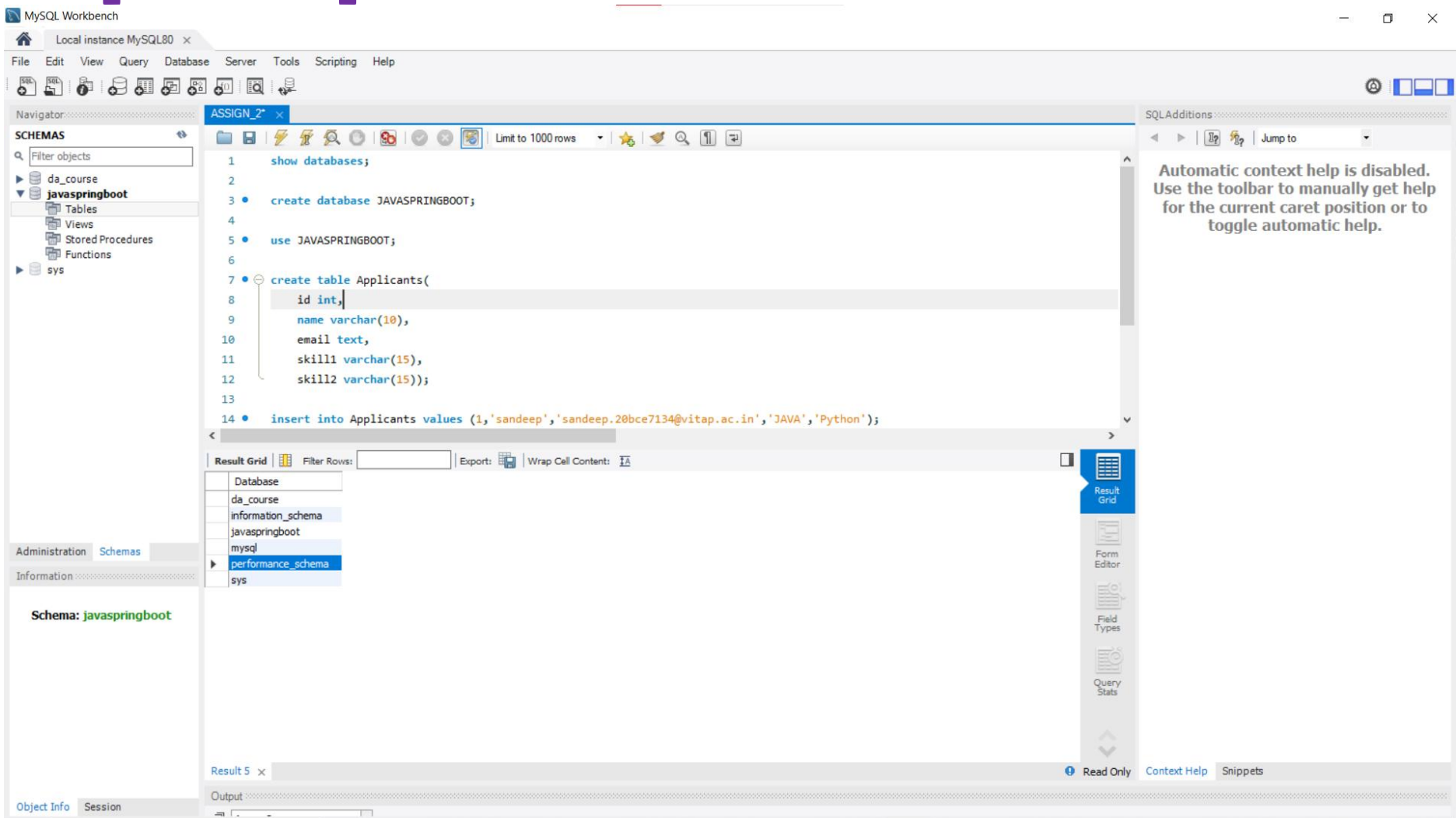


Delete :

1. `db.collectionName.deleteOne({filter})`: Deletes a single document from a collection that matches the filter.



2. MY SQL : [CRUD --]



MySQL Workbench

Local instance MySQL80 x

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Navigator: SCHEMAS

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sys

ASSIGN_2*

Limit to 1000 rows

```
2
3 • create database JAVASPRINGBOOT;
4
5 • use JAVASPRINGBOOT;
6
7 • create table Applicants(
8     id int,
9     name varchar(10),
10    email text,
11    skill1 varchar(15),
12    skill2 varchar(15));
13
14 • insert into Applicants values (1,'sandeep','sandeep.20bce7134@vitap.ac.in','JAVA','Python');
15 • insert into Applicants values (2,'Hemanth','hemanth.20bce7635@vitap.ac.in','JAVA',null);
16 • insert into Applicants values (3,'Kunal','kunal.20mce7443@vitap.ac.in',null,'Python');
17
18 • select * from Applicants;
19
20
```

Result Grid

	id	name	email	skill1	skill2
▶	1	sandeep	sandeep.20bce7134@vitap.ac.in	JAVA	Python
	2	Hemanth	hemanth.20bce7635@vitap.ac.in	JAVA	NULL
	3	Kunal	kunal.20mce7443@vitap.ac.in	NULL	Python

Applicants 7 x

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Schema: javaspringboot

Object Info Session

SQLAdditions: Automatic context help is disabled. Use the toolbar to manually get help for the current caret position or to toggle automatic help.

MySQL Workbench

Local instance MySQL80 x

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Functions

sys

ASSIGN_2*

Limit to 1000 rows

```
24
25
26 • create table CSE(
27     id int,
28     name varchar(10),
29     specialize varchar(20),
30     year year);
31
32 • insert into CSE values (1,'sandeep',null,year('2020-10-01'));
33 • insert into CSE values (2,'Nithin','Data Analytics',year('2019-10-01'));
34 • insert into CSE values (3,'Mani',null,year('2020-10-01'));
35
36 • select * from CSE;
```

Result Grid

	id	name	specialize	year
▶	1	sandeep	NULL	2020
	2	Nithin	Data Analytics	2019
	3	Mani	NULL	2020

CSE 8 x

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Schema: javaspringboot

Object Info Session

SQLAdditions: Automatic context help is disabled. Use the toolbar to manually get help for the current caret position or to toggle automatic help.

MySQL Workbench

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Schema: javaspringboot

ASSIGN_2*

Limit to 1000 rows

27 • select * from Applicants;

28

29 • UPDATE Applicants

30 SET skill12 = null

31 WHERE id = 1;

32

Result Grid

	id	name	email	skill1	skill2
▶	1	sandeep	sandeep.20bce7134@vitap.ac.in	JAVA	NULL
	2	Hemanth	hemanth.20bce7635@vitap.ac.in	JAVA	NULL
	3	Kunal	kunal.20mce7443@vitap.ac.in	NULL	Python
•	NULL	NULL	NULL	NULL	NULL

Applicants 12 x

Output

SQLAdditions

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MySQL Workbench

Local instance MySQL80 x

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Information

Schema: javaspringboot

ASSIGN_2*

Limit to 1000 rows

22

23 • insert into Applicants values (1,'sandeep','sandeep.20bce7134@vitap.ac.in','JAVA','Python');

24 • insert into Applicants values (2,'Hemanth','hemanth.20bce7635@vitap.ac.in','JAVA',null);

25 • insert into Applicants values (3,'Kunal','kunal.20mce7443@vitap.ac.in',null,'Python');

26

27 • select * from Applicants;

28

29 • UPDATE Applicants

30 SET skill12 = null

31 WHERE id = 1;

32

33 • DELETE FROM Applicants WHERE id=2;

34

Result Grid

	id	name	email	skill1	skill2
▶	1	sandeep	sandeep.20bce7134@vitap.ac.in	JAVA	NULL
	3	Kunal	kunal.20mce7443@vitap.ac.in	NULL	Python
•	NULL	NULL	NULL	NULL	NULL

Applicants 13 x

Output

SQLAdditions

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MySQL Workbench

Local instance MySQL80 x

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Functions

sys

ASSIGN_2 x

Limit to 1000 rows

34

35 • insert into Applicants values (2,'Koushik','koushik.20bce7234@vitap.ac.in','C++','Python');

36 • insert into Applicants values (4,'Vignesh','vignesh.20bce7123@vitap.ac.in',null,'Python');

37

38

39 • create table CSE(
40 id int,
41 name varchar(10),
42 specialize varchar(20),
43 year year);
44

45 • insert into CSE values (1,'sandeep',null,YEAR('2020-10-01'));

46 • insert into CSE values (2,'Nithin','Data Analytics',YEAR('2019-10-01'));

Result Grid

	id	name	email	skill1	skill2
1	sandeep	sandeep.20bce7134@vitap.ac.in	JAVA	NULL	
2	Koushik	koushik.20bce7234@vitap.ac.in	C++	Python	
3	Kunal	kunal.20mce7443@vitap.ac.in	NULL	Python	
4	Vignesh	vignesh.20bce7123@vitap.ac.in	NULL	Python	

Administration Schemas

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Schema: javaspringboot

Object Info Session

SQLAdditions

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Result Grid

Form Editor

Field Types

Query Stats

Execution Plan

Applicants 14 x

Output

Apply Revert Context Help Snippets

MySQL Workbench

Local instance MySQL80 x

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Navigator: SCHEMAS

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Tables

Views

Stored Procedures

Functions

sys

ASSIGN_2 x

Limit to 1000 rows

33 • DELETE FROM Applicants WHERE id=2;

34

35 • insert into Applicants values (2,'Koushik','koushik.20bce7234@vitap.ac.in','C++','Python');

36 • insert into Applicants values (4,'Vignesh','vignesh.20bce7123@vitap.ac.in',null,'Python');

37

38

39 • create table CSE(
40 id int,
41 name varchar(10),
42 specialize varchar(20),
43 year year);
44

45 • insert into CSE values (1,'sandeep',null,YEAR('2020-10-01'));

46 • insert into CSE values (2,'Nithin','Data Analytics',YEAR('2019-10-01'));

47 • insert into CSE values (3,'Mani',null,YEAR('2020-10-01'));

Result Grid

	id	name	specialize	year
1	sandeep	NULL		2020
2	Nithin	Data Analytics		2019
3	Mani	NULL		2020

Administration Schemas

Information

Schema: javaspringboot

Object Info Session

SQLAdditions

Automatic context help is disabled. Use the toolbar to manually get help for the current caret position or to toggle automatic help.

Result Grid

Form Editor

Field Types

Query Stats

Execution Plan

CSE 16 x

Output

Read Only Context Help Snippets

[JOINS --]

MySQL Workbench

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Schema: javaspringboot

ASSIGN_2

Limit to 1000 rows

49 • select * from CSE;

50

51 • SELECT *

52 FROM Applicants

53 INNER JOIN CSE

54 ON Applicants.name = CSE.name;

Result Grid

	id	name	email	skill1	skill2	id	name	specialize	year
▶	1	sandeep	sandeep.20bce7134@vitap.ac.in	JAVA	NULL	1	sandeep	NULL	2020

Result 17 x

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Output

SQLAdditions

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Schema: javaspringboot

ASSIGN_2

Limit to 1000 rows

54 ON Applicants.name = CSE.name;

55

56 • SELECT *

57 FROM Applicants

58 LEFT JOIN CSE

59 ON Applicants.name = CSE.name;

Result Grid

	id	name	email	skill1	skill2	id	name	specialize	year
▶	1	sandeep	sandeep.20bce7134@vitap.ac.in	JAVA	NULL	1	sandeep	NULL	2020
	2	Koushik	koushik.20bce7234@vitap.ac.in	C++	Python	NULL	NULL	NULL	NULL
	3	Kunal	kunal.20mce7443@vitap.ac.in	NULL	Python	NULL	NULL	NULL	NULL
	4	Vignesh	vignesh.20bce7123@vitap.ac.in	NULL	Python	NULL	NULL	NULL	NULL

Result 18 x

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Output

SQLAdditions

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Functions

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ASSIGN_2 x

Limit to 1000 rows

60

61 • SELECT *

62 FROM Applicants

63 RIGHT JOIN CSE

64 ON Applicants.name = CSE.name;

65

Result Grid

Filter Rows:

Export:

Wrap Cell Content:

	id	name	email	skill1	skill2	id	name	specialize	year
▶	1	sandeep	sandeep.20bce7134@vitap.ac.in	JAVA	NULL	1	sandeep	NULL	2020
NULL	NULL	NULL	NULL	NULL	NULL	2	Nithin	Data Analytics	2019
NULL	NULL	NULL	NULL	NULL	NULL	3	Mani	NULL	2020

Schema: javaspringboot

Object Info Session

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sys

ASSIGN_2 x

Limit to 1000 rows

63 RIGHT JOIN CSE

64 ON Applicants.name = CSE.name;

65

66 • SELECT *

67 FROM Applicants

68 CROSS JOIN CSE;

Result Grid

Filter Rows:

Export:

Wrap Cell Content:

	id	name	email	skill1	skill2	id	name	specialize	year
▶	1	sandeep	sandeep.20bce7134@vitap.ac.in	JAVA	NULL	3	Mani	NULL	2020
1	sandeep	sandeep.20bce7134@vitap.ac.in	JAVA	NULL	2	Nithin	Data Analytics	2019	
1	sandeep	sandeep.20bce7134@vitap.ac.in	JAVA	NULL	1	sandeep	NULL	2020	
2	Koushik	koushik.20bce7234@vitap.ac.in	C++	Python	3	Mani	NULL	2020	
2	Koushik	koushik.20bce7234@vitap.ac.in	C++	Python	2	Nithin	Data Analytics	2019	
2	Koushik	koushik.20bce7234@vitap.ac.in	C++	Python	1	sandeep	NULL	2020	
3	Kunal	kunal.20mce7443@vitap.ac.in	NULL	Python	3	Mani	NULL	2020	
3	Kunal	kunal.20mce7443@vitap.ac.in	NULL	Python	2	Nithin	Data Analytics	2019	
3	Kunal	kunal.20mce7443@vitap.ac.in	NULL	Python	1	sandeep	NULL	2020	
4	Vignesh	vignesh.20bce7123@vitap.ac.in	NULL	Python	3	Mani	NULL	2020	
4	Vignesh	vignesh.20bce7123@vitap.ac.in	NULL	Python	2	Nithin	Data Analytics	2019	
4	Vignesh	vignesh.20bce7123@vitap.ac.in	NULL	Python	1	sandeep	NULL	2020	

Schema: javaspringboot

Object Info Session

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MySQL Workbench

Local instance MySQL80 x

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Navigator: Schemas

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- sys

ASSIGN_2 x

Limit to 1000 rows

```
69
70 • SELECT *
71 FROM Applicants
72 LEFT JOIN CSE
73 ON Applicants.name = CSE.name
74 UNION
75 SELECT *
76 FROM Applicants
77 RIGHT JOIN CSE
78 ON Applicants.name = CSE.name;
```

Result Grid

	id	name	email	skill1	skill2	id	name	specialize	year
1	sandeep	sandeep.20bce7134@vitap.ac.in		JAVA	NULL	1	sandeep	NULL	2020
2	Koushik	koushik.20bce7234@vitap.ac.in		C++	Python	NULL	NULL	NULL	NULL
3	Kunal	kunal.20mce7443@vitap.ac.in		NULL	Python	NULL	NULL	NULL	NULL
4	Vignesh	vignesh.20bce7123@vitap.ac.in		NULL	Python	NULL	NULL	NULL	NULL
	NULL	NULL	NULL	NULL	NULL	2	Nithin	Data Analytics	2019
	NULL	NULL	NULL	NULL	NULL	3	Mani	NULL	2020

Administration Schemas

Information

Schema: javaspringboot

Result 21 x

Read Only Context Help Snippets

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-----THE END .