

Name: Chea Senghak

ID: e20211624

Assignment07

```
1 • use sailordb;
2
3 SELECT * FROM INFORMATION_SCHEMA.TABLE_CONSTRAINTS WHERE CONSTRAINT_SCHEMA="sailordb";
4 • Select * from boats;
5 • describe sailors;
6
7 -- INSERT INTO boats values
8 -- (101,"Interlake","blue"),
9 -- (102,"Interlake","red"),
10 -- (103,"Clipper","green"),
11 -- (104,"Marine","red");
12
13 • SELECT * FROM INFORMATION_SCHEMA.TABLE_CONSTRAINTS WHERE CONSTRAINT_SCHEMA="sailordb";
14 • SELECT * FROM INFORMATION_SCHEMA.CHECK_CONSTRAINTS;
15
16 • ALTER TABLE sailors drop constraint sailors_chk_1;
17 • ALTER TABLE sailors add check((rating>0) and (rating<=10));
18 • SELECT * FROM sailors;
19 -- INSERT INTO Sailors values
20 -- (22,"Dustin",7,45),
21 -- (29,"Brutus",1,33),
22 -- (31,"Lubber",8,55.5),
23 -- (32,"Andy",8,25.5);
24
25 • delete from sailors where (sid=32);
26 -- INSERT INTO Sailors values
27 -- (31,"Lubber",8,55),
28 -- (32,"Andy",8,25),
29 -- (58,"Rusty",10,35),
30 -- (64,"Horatio",7,35),
31 -- (71,"Zorba",10,16),
32 -- (74,"Horatio",9,35),
33 -- (85,"Art",3,25),
34 -- (95,"Bob",3,63);
35
36 • describe reserves;
37 • select*from reserves;
38 • select*from boats;
39 • select*from sailors;
40
41 • INSERT INTO reserves (SID, bid, day)
42 VALUES (22, 101, '1998-10-10');
43
44 • ALTER TABLE reserves add primary key(day,sid,bid);
45
46 • SELECT * from information_schema.referential_constraints where constraint_schema = "sailordb";
47 • alter table reserves drop constraint fk_sid;
48 • ALTER TABLE reserves add constraint fk2_sid foreign key(sid) references sailors(sid) on update cascade on delete restrict;
49 -- delete from reserves where sid=22;
50 -- INSERT INTO reserves values
51 -- (22,102,"1998-10-10"),
52 -- (22,103,"1998-8-10"),
53 -- (22,104,"1998-7-10"),
54 -- (31,102,"1998-10-11"),
55 -- (31,103,"1998-6-11"),
56 -- (31,104,"1998-12-11"),
57 -- (64,101,"1998-5-9"),
58 -- (64,102,"1998-8-9"),
59 -- (74,103,"1998-8-9");
```

```

59  -- (74,103,"1998-8-9");
60
61  -- 4a
62  • select * from sailors where rating >7;
63  -- 4b
64  • select sname,rating from sailors where rating > 7 and age < 50;
65  -- 4c
66  • select * from sailors where sname="Horatio";
67  -- 4d
68  • select *from sailors where sname like "A%";
69  -- 4e
70  • select *from boats where color="red";
71  -- 4f
72  • select *from boats natural join reserves where day like "1998-10-%";
73

```

	CONSTRAINT_CATALOG	CONSTRAINT_SCHEMA	CONSTRAINT_NAME	TABLE_SCHEMA	TABLE_NAME	CONSTRAINT_TYPE	ENFORCED
▶	def	sailordb	PRIMARY	sailordb	boats	PRIMARY KEY	YES
	def	sailordb	fk_bid	sailordb	reserves	FOREIGN KEY	YES
	def	sailordb	fk_sid	sailordb	reserves	FOREIGN KEY	YES
	def	sailordb	PRIMARY	sailordb	sailors	PRIMARY KEY	YES

```

1  • use sailordb;
2
3  SELECT * FROM INFORMATION_SCHEMA.TABLE_CONSTRAINTS WHERE CONSTRAINT_SCHEMA="sailordb";
4  • Select * from boats;
5  • describe sailors;
6
7  -- INSERT INTO boats values
8  -- (101,"Interlake","blue"),
9  -- (102,"Interlake","red"),
10 -- (103,"Clipper","green"),
11 -- (104,"Marine","red");
12
13 • SELECT * FROM INFORMATION_SCHEMA.TABLE_CONSTRAINTS WHERE CONSTRAINT_SCHEMA="sailordb";
14 • SELECT * FROM INFORMATION_SCHEMA.CHECK_CONSTRAINTS;
15
16 • ALTER TABLE sailors drop constraint sailors_chk_1;
17 ALTER TABLE sailors add check((rating>0) and (rating<=10));
18 • SELECT * FROM sailors;
19 -- INSERT INTO Sailors values

```

	bid	Bname	color
▶	101	Interlake	blue
	102	Interlake	red
	103	Clipper	green
	104	Marine	red
•	NULL	NULL	NULL

```

13 • SELECT * FROM INFORMATION_SCHEMA.TABLE_CONSTRAINTS WHERE CONSTRAINT_SCHEMA="sailordb";
14 • SELECT * FROM INFORMATION_SCHEMA.CHECK_CONSTRAINTS;
15
16 • ALTER TABLE sailors drop constraint sailors_chk_1;
17 ALTER TABLE sailors add check((rating>0) and (rating<=10));

```

	CONSTRAINT_CATALOG	CONSTRAINT_SCHEMA	CONSTRAINT_NAME	TABLE_SCHEMA	TABLE_NAME	CONSTRAINT_TYPE	ENFORCED
▶	def	sailordb	PRIMARY	sailordb	boats	PRIMARY KEY	YES
	def	sailordb	fk_bid	sailordb	reserves	FOREIGN KEY	YES
	def	sailordb	fk_sid	sailordb	reserves	FOREIGN KEY	YES
	def	sailordb	PRIMARY	sailordb	sailors	PRIMARY KEY	YES

```

16 • ALTER TABLE sailors drop constraint sailors_chk_1;
17 ALTER TABLE sailors add check((rating>0) and (rating<=10));
18 • SELECT * FROM sailors;
19 -- INSERT INTO Sailors values
20 -- (22,"Dustin",7,45).

```

	sid	sname	rating	age
▶	22	Dustin	7	45
	29	Brustus	1	33
	31	Lubber	8	56
	32	Andy	8	26
	58	Rusty	10	35
	64	JHoratio	7	35
	71	Zorba	10	16
	74	Horatio	9	35
	85	Art	3	26
	95	Bob	3	64
•	NULL	NULL	NULL	NULL

```

45
46 • SELECT * from information_schema.referential_constraints where constraint_schema = "sailordb";
47 alter table reserves drop constraint fk_sid;
48 • ALTER TABLE reserves add constraint fk2_sid foreign key(sid) references sailors(sid) on update cascade on delete restrict;
49 -- delete from reserves where sid=22;
50 -- INSERT INTO reserves values
51 -- (22,102,"1998-10-10"),
52 -- (22,103,"1998-8-10").

```

	CONSTRAINT_CATALOG	CONSTRAINT_SCHEMA	CONSTRAINT_NAME	UNIQUE_CONSTRAINT_CATALOG	UNIQUE_CONSTRAINT_SCHEMA	UNIQUE_CONSTRAINT_NAME	MATCH_OPTION	UPDATE_RULE
▶	def	sailordb	fk_bid	def	sailordb	PRIMARY	NONE	CASCADE
	def	sailordb	fk_sid	def	sailordb	PRIMARY	NONE	CASCADE

Library
Assing06_data
boats
students
borrows
TP02_DML
books
students
authors
assignment07_DML

Limit to 1000 rows

```

53  -- (22,104,"1998-7-10"),
54  -- (31,102,"1998-10-11"),
55  -- (31,103,"1998-6-11"),
56  -- (31,104,"1998-12-11"),
57  -- (64,101,"1998-5-9"),
58  -- (64,102,"1998-8-9"),
59  -- (74,103,"1998-8-9");
60
61  -- 4a
62 • select * from sailors where rating >7;
63  -- 4h

```

Result Grid
Filter Rows:
Edit:
Export/Import:
Wrap Cell Content:

sid	sname	rating	age
31	Lubber	8	56
58	Rusty	10	35
71	Zorba	10	16
74	Horatio	9	35
NULL	NULL	NULL	NULL

```

61  -- 4a
62 • select * from sailors where rating >7;
63  -- 4b
64 • select sname, rating from sailors where rating > 7 and age < 50;
65  -- 4c

```

Result Grid
Filter Rows:
Export:
Wrap Cell Content:

sname	rating
Rusty	10
Zorba	10
Horatio	9

```

61  -- 4a
62 • select * from sailors where rating >7;
63  -- 4b
64 • select sname, rating from sailors where rating > 7 and age < 50;
65  -- 4c
66 • select * from sailors where sname="Horatio";
67  -- 4d

```

Result Grid
Filter Rows:
Edit:
Export/Import:
Wrap Cell Content:

sid	sname	rating	age
74	Horatio	9	35
NULL	NULL	NULL	NULL

Limit to 1000 rows

59 -- (74,103,"1998-8-9");

60

61 -- 4a

62 • select * from sailors where rating >7;

63 -- 4b

64 • select sname,rating from sailors where rating > 7 and age < 50;

65 -- 4c

66 • select * from sailors where sname="Horatio";

67 -- 4d

68 • select *from sailors where sname like "A%";

69 -- 4e

Result Grid

Filter Rows:

Edit: Export/Import: Wrap Cell Content:

sid	sname	rating	age
85	Art	3	26
NULL	NULL	NULL	NULL

67 -- 4d

68 • select *from sailors where sname like "A%";

69 -- 4e

70 • select *from boats where colors="red";

71 -- 4f

Result Grid

Filter Rows:

Edit: Export/Import: Wrap Cell Content:

bid	Bname	color
102	Interlake	red
104	Marine	red
NULL	NULL	NULL

70 • select *from boats where color="red";

71 -- 4f

72 • select *from boats natural join reserves where day like "1998-10-%";

73

Result Grid

Filter Rows:

Export: Wrap Cell Content:

bid	Bname	color	SID	day
-----	-------	-------	-----	-----