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Batch: Data Engineering

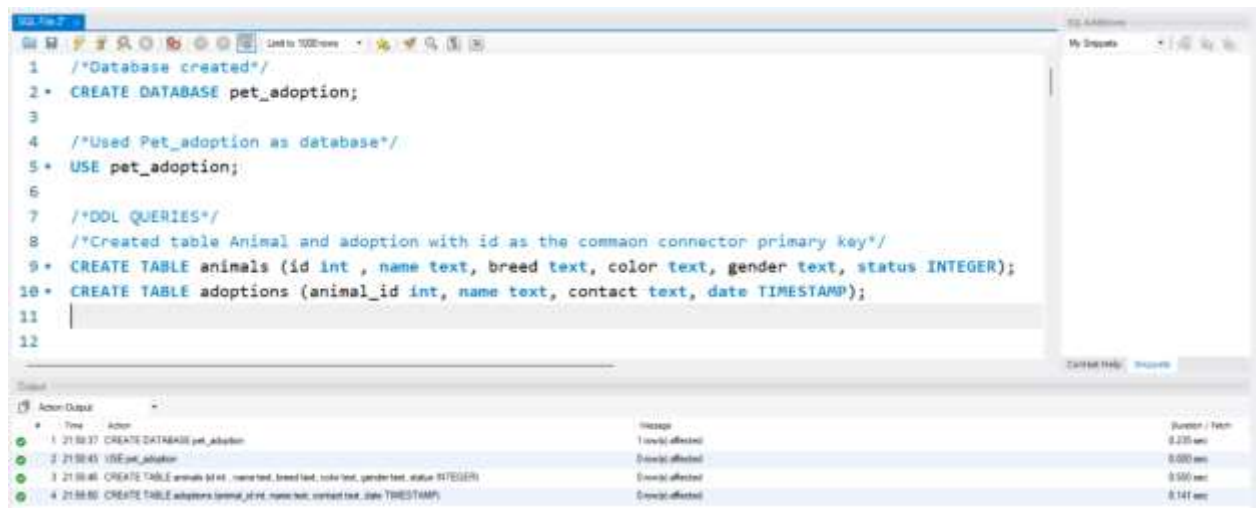
Date:19/01/2024

Topic: SQL

Solution:

1. SQL

Create Database, Tables

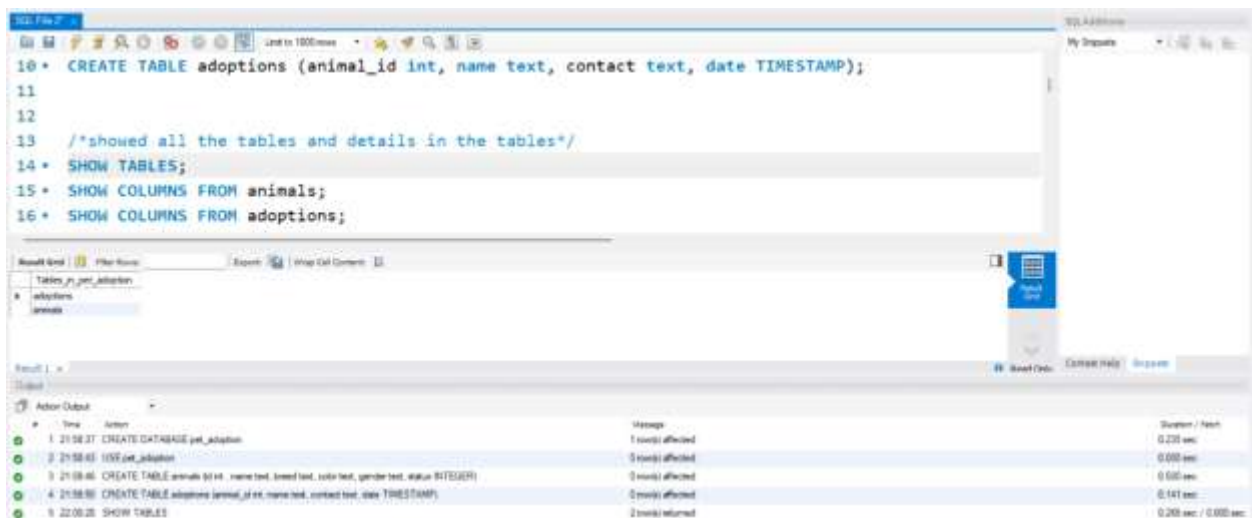


The screenshot shows the SQL Studio interface with the following SQL script:

```
1 /*Database created*/
2 * CREATE DATABASE pet_adoption;
3
4 /*Used Pet_adoption as database*/
5 * USE pet_adoption;
6
7 /*DDL QUERIES*/
8 /*Created table Animal and adoption with id as the common connector primary key*/
9 * CREATE TABLE animals (id int , name text, breed text, color text, gender text, status INTEGER);
10 * CREATE TABLE adoptions (animal_id int, name text, contact text, date TIMESTAMP);
11
12
```

The Action Output pane shows the execution results:

#	Time	Action	Message	Duration / Temp
1	21:58:37	CREATE DATABASE pet_adoption	1 row(s) affected	0.235 sec
2	21:58:45	USE pet_adoption	0 row(s) affected	0.000 sec
3	21:58:46	CREATE TABLE animals (id int , name text, breed text, color text, gender text, status INTEGER)	0 row(s) affected	0.500 sec
4	21:58:50	CREATE TABLE adoptions (animal_id int, name text, contact text, date TIMESTAMP)	0 row(s) affected	0.141 sec



The screenshot shows the SQL Studio interface with the following SQL script:

```
10 * CREATE TABLE adoptions (animal_id int, name text, contact text, date TIMESTAMP);
11
12
13 /*showed all the tables and details in the tables*/
14 * SHOW TABLES;
15 * SHOW COLUMNS FROM animals;
16 * SHOW COLUMNS FROM adoptions;
```

The Action Output pane shows the execution results:

#	Time	Action	Message	Duration / Temp
1	21:58:37	CREATE DATABASE pet_adoption	1 row(s) affected	0.235 sec
2	21:58:45	USE pet_adoption	0 row(s) affected	0.000 sec
3	21:58:46	CREATE TABLE animals (id int , name text, breed text, color text, gender text, status INTEGER)	0 row(s) affected	0.500 sec
4	21:58:50	CREATE TABLE adoptions (animal_id int, name text, contact text, date TIMESTAMP)	0 row(s) affected	0.141 sec
5	22:00:28	SHOW TABLES	2 row(s) returned	0.268 sec / 0.000 sec

The Results pane shows the output of the SHOW TABLES query:

Tables_in_pet_adoption
adoptions
animals

SQL Additions

My Queries

```

13 /*showed all the tables and details in the tables*/
14 * SHOW TABLES;
15 * SHOW COLUMNS FROM animals;
16 * SHOW COLUMNS FROM adoptions;
17
18

```

Result Grid

Field	Type	Null	Key	Default	Extra
id	int	NO		0000	
name	text	NO		0000	
breed	text	NO		0000	
color	text	NO		0000	
gender	text	NO		0000	
status	int	NO		0000	

Output

Action Output

#	Time	Action	Message	Duration / Fetch
1	21:58:37	CREATE DATABASE pet_adoption	1 row(s) affected	0.228 sec
2	21:58:43	USE pet_adoption	0 row(s) affected	0.000 sec
3	21:58:46	CREATE TABLE animals (id int, name text, breed text, color text, gender text, status INT(255))	0 row(s) affected	0.500 sec
4	21:58:50	CREATE TABLE adoptions (animal_id int, name text, contact text, date TIMESTAMP)	0 row(s) affected	0.141 sec
5	22:00:26	SHOW TABLES	2 row(s) returned	0.268 sec / 0.000 sec
6	22:01:23	SHOW COLUMNS FROM animals	6 row(s) returned	0.002 sec / 0.000 sec

SQL Additions

My Queries

```

13 /*showed all the tables and details in the tables*/
14 * SHOW TABLES;
15 * SHOW COLUMNS FROM animals;
16 * SHOW COLUMNS FROM adoptions;
17
18

```

Result Grid

Field	Type	Null	Key	Default	Extra
animal_id	int	YES		0000	
name	text	YES		0000	
contact	text	YES		0000	
date	timestamp	YES		0000	

Output

Action Output

#	Time	Action	Message	Duration / Fetch
1	21:58:37	CREATE DATABASE pet_adoption	1 row(s) affected	0.228 sec
2	21:58:43	USE pet_adoption	0 row(s) affected	0.000 sec
3	21:58:46	CREATE TABLE animals (id int, name text, breed text, color text, gender text, status INT(255))	0 row(s) affected	0.500 sec
4	21:58:50	CREATE TABLE adoptions (animal_id int, name text, contact text, date TIMESTAMP)	0 row(s) affected	0.141 sec
5	22:00:26	SHOW TABLES	2 row(s) returned	0.268 sec / 0.000 sec
6	22:01:23	SHOW COLUMNS FROM animals	6 row(s) returned	0.002 sec / 0.000 sec
7	22:01:47	SHOW COLUMNS FROM adoptions	4 row(s) returned	0.010 sec / 0.000 sec

SQL Additions

```

17
18
19
20
21
22 /*SQL QUERY INSERTED SOME DATA IN TABLE*/
23 * INSERT INTO animals (id, name, breed, color, gender, status) VALUES ('1', 'Bellyflop', 'Beagle', 'Brown', 'Male', 0);
24 * INSERT INTO animals (id, name, breed, color, gender, status) VALUES ('2', 'Bellyflop', 'Beagle', 'Brown', 'Male', 0);
25
26
27
28
29
30

```

Output

#	Time	Action	Message	Duration / Refresh
3	21:58:46	CREATE TABLE animals (id int, name text, breed text, color text, gender text, status BIT(2)ZER0)	0 rows affected	0.500 sec
4	21:58:50	CREATE TABLE adoptions (animal_id int, name text, contact text, date TIME(4))	0 rows affected	0.141 sec
5	22:00:28	SHOW TABLES	2 rows returned	0.288 sec / 0.000 sec
6	22:01:22	SHOW COLUMNS FROM animals	6 rows returned	0.062 sec / 0.000 sec
7	22:01:47	SHOW COLUMNS FROM adoptions	4 rows returned	0.015 sec / 0.000 sec
8	22:02:16	INSERT INTO animals (id, name, breed, color, gender, status) VALUES ('1', 'Bellyflop', 'Beagle', 'Brown', 'Male', 0)	1 rows affected	0.100 sec
9	22:02:17	INSERT INTO animals (id, name, breed, color, gender, status) VALUES ('2', 'Bellyflop', 'Beagle', 'Brown', 'Male', 0)	1 rows affected	0.100 sec

SQL Additions

```

29
30
31 /*SQL QUERY TO CHECK INSERTION IN DIFFERENTS WAYS*/
32 * SELECT * FROM animals;
33
34
35
36

```

Result Grid

#	id	name	breed	color	gender	status
1	1	Bellyflop	Beagle	Brown	Male	0
2	2	Bellyflop	Beagle	Brown	Male	0
3	3	Shrimp	Mulky	White	Female	0
4	4	Pommes	Pommesman	Black	Female	0
5	5	Cricket	Chihuahua	Brown	Male	0
6	6	Pommes	Poodle	Purple	Female	0
7	7	Spot	Salmon	Black and white	Male	0

animals 6

Output

#	Time	Action	Message	Duration / Refresh
1	22:09:26	SELECT * FROM animals LIMIT 0, 1000	7 rows returned	0.000 sec / 0.000 sec

SQL Additions

```

38 * SELECT breed FROM animals;
39 * SELECT name FROM animals WHERE gender = 'female';
40 * SELECT id FROM animals WHERE status = 0;
41
42
43
44

```

Result Grid

#	breed
1	Beagle
2	Beagle
3	Mulky
4	Pommesman
5	Chihuahua
6	Poodle
7	Salmon

animals 7

Output

#	Time	Action	Message	Duration / Refresh
1	22:09:29	SELECT * FROM animals LIMIT 0, 1000	7 rows returned	0.000 sec / 0.000 sec
2	22:09:30	SELECT breed FROM animals LIMIT 0, 1000	7 rows returned	0.000 sec / 0.000 sec

SQLAlchemy

My Imports

```

38 * SELECT breed FROM animals;
39 * SELECT name FROM animals WHERE gender = 'female';
40 * SELECT id FROM animals WHERE status = 0;
41
42
43

```

Result field | Filter Rows | Rows: 0 | View: Grid Contents

animals | 0

Output

Action Output

#	Time	Action	Message	Duration / Fetch
1	22:05:29	SELECT * FROM animals LIMIT 0, 1000	7 rows returned	0.000 sec / 0.000 sec
2	22:05:30	SELECT breed FROM animals LIMIT 0, 1000	7 rows returned	0.000 sec / 0.000 sec
3	22:05:30	SELECT name FROM animals WHERE gender = 'female' LIMIT 0, 1000	3 rows returned	0.000 sec / 0.000 sec

SQLAlchemy

My Imports

```

44
45
46 /*SQL QUERY UPDATE TO CHANGE THE DATA IN TABLE IN DIFFERENT TYPES*/
47 * UPDATE animals SET color = 'Brown' WHERE id = '1';
48 * UPDATE animals SET color = 'Brown' WHERE name = 'Princess';
49 * UPDATE animals SET color = 'Brown' WHERE color = 'Purple';
50
51
52 /*INSERTED DATA IN ADOPTION TABLE SO NEEDED TO DO CHANGES
53 IN ANIMALS TABLE THAT THE PARTICULAR PET IS ADOPTED*/
54 * UPDATE animals SET status = 1 WHERE id = '5';
55
56 * INSERT INTO adoptions (animal_id, name, contact, date) VALUES ('5', 'Pinocchio', 'realboy@cockroachlabs.com', NOW());
57

```

Output

Action Output

#	Time	Action	Message	Duration / Fetch
1	22:05:29	SELECT * FROM animals LIMIT 0, 1000	7 rows returned	0.000 sec / 0.000 sec
2	22:05:30	SELECT breed FROM animals LIMIT 0, 1000	7 rows returned	0.000 sec / 0.000 sec
3	22:05:30	SELECT name FROM animals WHERE gender = 'female' LIMIT 0, 1000	3 rows returned	0.000 sec / 0.000 sec
4	22:05:31	UPDATE animals SET color = 'Brown' WHERE id = '1'	1 row(s) affected Rows matched: 1 Changed: 0 Warnings: 0	0.000 sec
5	22:05:45	UPDATE animals SET color = 'Brown' WHERE name = 'Princess'	1 row(s) affected Rows matched: 2 Changed: 2 Warnings: 0	0.001 sec
6	22:05:45	UPDATE animals SET color = 'Brown' WHERE color = 'Purple'	1 row(s) affected Rows matched: 0 Changed: 0 Warnings: 0	0.000 sec

SQLAlchemy

My Imports

```

58
59
60 /*INSERTED DATA IN ADOPTION TABLE SO NEEDED TO DO CHANGES
61 IN ANIMALS TABLE THAT THE PARTICULAR PET IS ADOPTED*/
62 * UPDATE animals SET status = 1 WHERE id = '5';
63
64 * INSERT INTO adoptions (animal_id, name, contact, date) VALUES ('5', 'Pinocchio', 'realboy@cockroachlabs.com', NOW());
65
66 * UPDATE animals SET status = 1 WHERE id = '7';
67 * INSERT INTO adoptions (animal_id, name, contact, date) VALUES ('7', 'Ellie', 'elli@cockroachlabs.com', NOW());
68 * select * from adoptions;
69
70 /*SQL QUERY TO ADD A NEW COLUMN IN ANIMALS*/
71 * ALTER TABLE animals ADD COLUMN species text;

```

Output

Action Output

#	Time	Action	Message	Duration / Fetch
4	22:05:31	UPDATE animals SET color = 'Brown' WHERE id = '1'	1 row(s) affected Rows matched: 1 Changed: 0 Warnings: 0	0.000 sec
5	22:05:45	UPDATE animals SET color = 'Brown' WHERE name = 'Princess'	2 row(s) affected Rows matched: 2 Changed: 2 Warnings: 0	0.001 sec
6	22:05:45	UPDATE animals SET color = 'Brown' WHERE color = 'Purple'	0 row(s) affected Rows matched: 0 Changed: 0 Warnings: 0	0.000 sec
7	22:07:14	UPDATE animals SET status = 1 WHERE id = '5'	1 row(s) affected Rows matched: 1 Changed: 1 Warnings: 0	0.000 sec
8	22:07:20	INSERT INTO adoptions (animal_id, name, contact, date) VALUES ('5', 'Pinocchio', 'realboy@cockroachlabs.com', NOW())	1 row(s) affected	0.000 sec
9	22:07:24	UPDATE animals SET status = 1 WHERE id = '7'	1 row(s) affected Rows matched: 1 Changed: 1 Warnings: 0	0.001 sec
10	22:07:26	INSERT INTO adoptions (animal_id, name, contact, date) VALUES ('7', 'Ellie', 'elli@cockroachlabs.com', NOW())	1 row(s) affected	0.000 sec

SQL Editor

```

55
56 * INSERT INTO adoptions (animal_id, name, contact, date) VALUES ('5', 'Pisocchio', 'realboy@cockroachlabs.com', NOW());
57
58 * UPDATE animals SET status = 1 WHERE id = '7';
59 * INSERT INTO adoptions (animal_id, name, contact, date) VALUES ('7', 'Ella', 'ellacrew@cockroachlabs.com', NOW());
60 * select * from adoptions;

```

Result field

animal_id	name	contact	date
5	Pisocchio	realboy@cockroachlabs.com	2024-01-19 22:07:22
7	Ella	ellacrew@cockroachlabs.com	2024-01-19 22:07:26

Output

#	Time	Action	Message	Duration / Peak
5	22:06:45	UPDATE animals SET color = 'Brown' WHERE name = 'Pisocchio'	2 rows affected Rows matched: 2 Changed: 2 Warnings: 0	0.001 sec
6	22:06:46	UPDATE animals SET color = 'Brown' WHERE name = 'Pisocchio'	2 rows affected Rows matched: 2 Changed: 2 Warnings: 0	0.000 sec
7	22:07:14	UPDATE animals SET status = 1 WHERE id = '7'	1 row(s) affected Rows matched: 1 Changed: 1 Warnings: 0	0.000 sec
8	22:07:22	INSERT INTO adoptions (animal_id, name, contact, date) VALUES ('5', 'Pisocchio', 'realboy@cockroachlabs.com', NOW());	1 row(s) affected	0.078 sec
9	22:07:24	UPDATE animals SET status = 1 WHERE id = '7'	1 row(s) affected Rows matched: 1 Changed: 1 Warnings: 0	0.001 sec
10	22:07:26	INSERT INTO adoptions (animal_id, name, contact, date) VALUES ('7', 'Ella', 'ellacrew@cockroachlabs.com', NOW());	1 row(s) affected	0.000 sec
11	22:08:00	select * from adoptions LIMIT 5, 1000;	2 rows returned	0.000 sec - 0.000 sec

SQL Editor

```

61
62 /*DDL QUERY TO ADD A NEW COLUMN IN ANIMALS*/
63 * ALTER TABLE animals ADD COLUMN species text;
64 * UPDATE animals SET species = 'Dog';
65
66 /*INSERTED DIFFERENT TYPES OF ANIMALS */
67 * INSERT INTO animals (id, name, species, breed, color, gender, status) VALUES ('8', 'Heounmix', 'Cat',
68 * INSERT INTO animals (id, name, species, breed, color, gender, status) VALUES ('9', 'Ash', 'Cat',
69 * INSERT INTO animals (id, name, species, breed, color, gender, status) VALUES ('10', 'Tiger', 'Cat',
70
71 /*CREATED 3RD TABLE SHELTER TO USE DIFFERENT TYPES OF JOIN*/
72 * CREATE TABLE shelters (id INTEGER, name text, location text);
73

```

Output

#	Time	Action	Message	Duration / Peak
10	22:07:26	INSERT INTO adoptions (animal_id, name, contact, date) VALUES ('7', 'Ella', 'ellacrew@cockroachlabs.com', NOW());	1 row(s) affected	0.000 sec
11	22:08:00	select * from adoptions LIMIT 5, 1000;	2 rows returned	0.000 sec - 0.000 sec
12	22:08:01	ALTER TABLE animals ADD COLUMN species text;	1 row(s) affected Records: 0 Duplicates: 0 Warnings: 0	0.125 sec
13	22:08:30	UPDATE animals SET species = 'Dog';	1 row(s) affected Rows matched: 7 Changed: 7 Warnings: 0	0.078 sec
14	22:08:48	INSERT INTO animals (id, name, species, breed, color, gender, status) VALUES ('8', 'Heounmix', 'Cat', 'Heounmix', 'Brown', 'Female', 0);	1 row(s) affected	0.001 sec
15	22:08:51	INSERT INTO animals (id, name, species, breed, color, gender, status) VALUES ('9', 'Ash', 'Cat', 'Fennel', 'Grey', 'Female', 0);	1 row(s) affected	0.001 sec
16	22:08:52	INSERT INTO animals (id, name, species, breed, color, gender, status) VALUES ('10', 'Tiger', 'Cat', 'Tiger', 'Brown', 'Male', 0);	1 row(s) affected	0.000 sec

SQL Editor

```

70
71 /*CREATED 3RD TABLE SHELTER TO USE DIFFERENT TYPES OF JOIN*/
72 CREATE TABLE shelters (id INTEGER, name text, location text);
73
74 /*inserted data into shelters and updated the same in animals*/
75 INSERT INTO shelters (id, name, location) VALUES (1, 'Animals 4 Homes', 'Red City');
76 ALTER TABLE animals ADD COLUMN shelter INTEGER;
77 UPDATE animals SET shelter = 1;
78 INSERT INTO shelters (id, name, location) VALUES (2, 'Adopt A Buddy', 'Green Town');
79 INSERT INTO shelters (id, name, location) VALUES (3, 'Fluffy Animals', 'Blue Hills');
80
81 INSERT INTO animals (id, name, shelter, species, breed, color, gender, status) VALUES ('11

```

Output

#	Time	Action	Message	Duration / Rows
1	22:08:26	CREATE TABLE shelters (id INTEGER, name text, location text)	1 record affected	1.041 sec
2	22:08:31	INSERT INTO shelters (id, name, location) VALUES (1, 'Animals 4 Homes', 'Red City')	1 record affected	0.047 sec
3	22:08:33	ALTER TABLE animals ADD COLUMN shelter INTEGER	1 record affected Records: 1 Duplicates: 0 Warnings: 0	0.041 sec
4	22:08:34	UPDATE animals SET shelter = 1	10 records affected Rows matched: 10 Changed: 10 Warnings: 0	0.000 sec
5	22:08:36	INSERT INTO shelters (id, name, location) VALUES (2, 'Adopt A Buddy', 'Green Town')	1 record affected	0.031 sec
6	22:08:37	INSERT INTO shelters (id, name, location) VALUES (3, 'Fluffy Animals', 'Blue Hills')	1 record affected	0.030 sec

SQL Editor

```

81 INSERT INTO animals (id, name, shelter, species, breed, color, gender, status) VALUES ('11
82 INSERT INTO animals (id, name, shelter, species, breed, color, gender, status) VALUES ('12
83 INSERT INTO animals (id, name, shelter, species, breed, color, gender, status) VALUES ('13
84
85 /*created index */
86 CREATE INDEX animal_shelter ON animals (shelter);
87
88 /*used joins to connect different tables*/
89 SELECT * FROM animals JOIN shelters ON animals.shelter = shelters.id;
90
91 SELECT * FROM adoptions JOIN animals ON adoptions.animal_id = animals.id WHERE animals.sh
92

```

Output

#	Time	Action	Message	Duration / Rows
1	22:10:17	INSERT INTO animals (id, name, shelter, species, breed, color, gender, status) VALUES (11, 'Sherry', '3, Dog, Beagle, Brown'	1 record affected	0.016 sec
2	22:10:18	INSERT INTO animals (id, name, shelter, species, breed, color, gender, status) VALUES (12, 'Sally', '2, Cat, Tabby, Orange, White'	1 record affected	0.017 sec
3	22:10:20	INSERT INTO animals (id, name, shelter, species, breed, color, gender, status) VALUES (13, 'Toot', '3, Dog, Border, Grey, White'	1 record affected	0.016 sec
4	22:10:21	CREATE INDEX animal_shelter ON animals (shelter)	1 record affected Records: 0 Duplicates: 0 Warnings: 0	0.047 sec

SQL Editor

```

87
88 /*used joins to connect different tables*/
89 SELECT * FROM animals JOIN shelters ON animals.shelter = shelters.id;
90
91 SELECT * FROM adoptions JOIN animals ON adoptions.animal_id = animals.id WHERE animals.sh

```

Result Grid

#	id	name	breed	color	gender	status	species	shelter	id	name	location
1	1	Becky/Rip	Beagle	Brown	Male	0	Dog	1	1	Animals 4 Homes	Red City
2	2	Becky/Rip	Beagle	Brown	Male	0	Dog	1	1	Animals 4 Homes	Red City
3	3	Sherry	Husky	White	Female	0	Dog	3	3	Animals 4 Homes	Red City
4	4	Freddie	Pomeranian	Brown	Female	0	Dog	1	1	Animals 4 Homes	Red City
5	5	Orkney	Chihuahua	Brown	Male	1	Dog	1	1	Animals 4 Homes	Red City
6	6	Freddie	Husky	Brown	Female	0	Dog	1	1	Animals 4 Homes	Red City
7	7	Spot	Sheltie	Black and White	Male	1	Dog	1	1	Animals 4 Homes	Red City
8	8	Freddie	Munchkin	Yellow	Female	0	Cat	1	1	Animals 4 Homes	Red City

Output

#	Time	Action	Message	Duration / Rows
1	22:10:49	SELECT * FROM animals JOIN shelters ON animals.shelter = shelters.id LIMIT 0, 1000	10 records returned	0.000 sec / 0.000 sec

SQL Assistant

My Scripts

```

87
88 /*used joins to connect different tables*/
89 * SELECT * FROM animals JOIN shelters ON animals.shelter = shelters.id;
90
91 * SELECT * FROM adoptions JOIN animals ON adoptions.animal_id = animals.id WHERE animals.shelter = 1;
92

```

Result Grid

animal_id	name	contact	date	id	name	breed	color	gender	status	species	shelter
6	Proscio	medley@goodsochicago.com	2024-01-19 22:57:25	6	Chubert	Chihuahua	Brown	Male	1	Dog	1
7	Elle	elleanne@goodsochicago.com	2024-01-19 23:07:26	7	Spot	Labrador	Black and white	Male	1	Dog	1

Result: 11

Read Only | Control Help | Reports

Output

Action Output

#	Time	Action	Message	Duration / Fetch
1	22:10:49	SELECT * FROM animals JOIN shelters ON animals.shelter = shelters.id LIMIT 0, 1000	13 rows(s) returned	0.000 sec / 0.000 sec
2	22:11:07	SELECT * FROM adoptions JOIN animals ON adoptions.animal_id = animals.id WHERE animals.shelter = 1 LIMIT 0, 1000	2 rows(s) returned	0.000 sec / 0.000 sec

SQL Assistant

My Scripts

```

93
94 * SELECT * FROM adoptions JOIN animals ON adoptions.animal_id = animals.id WHERE animals.shelter = 1;
95
96 /*used of distinct*/
97 * select distinct * from animals;
98

```

Result Grid

id	name	breed	color	gender	status	species	shelter
1	Buffy/Rip	Beagle	Brown	Male	0	Dog	1
2	Buffy/Rip	Beagle	Brown	Male	0	Dog	1
3	Monny	Muddy	White	Female	0	Dog	1
4	Proscio	Pointer/Border	Brown	Female	0	Dog	1
5	Chubert	Chihuahua	Brown	Male	0	Dog	1
6	Proscio	Poodle	Brown	Female	0	Dog	1
7	Spot	Labrador	Black and White	Male	0	Dog	1
8	Proscio	Munchkin	Yellow	Female	0	Cat	1

Result: 12

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Output

Action Output

#	Time	Action	Message	Duration / Fetch
1	22:10:49	SELECT * FROM animals JOIN shelters ON animals.shelter = shelters.id LIMIT 0, 1000	13 rows(s) returned	0.000 sec / 0.000 sec
2	22:11:07	SELECT * FROM adoptions JOIN animals ON adoptions.animal_id = animals.id WHERE animals.shelter = 1 LIMIT 0, 1000	2 rows(s) returned	0.000 sec / 0.000 sec
3	22:11:26	select distinct * from animals	13 rows(s) returned	0.000 sec / 0.000 sec

SQL Assistant

My Scripts

```

99
100
101 /*use of delete*/
102 * delete from animals where id =13;
103
104 /*used of order by*/
105 * select * from animals order by id desc;
106
107 /*use of group by*/
108 * select gender,count(gender) from animals group by gender;
109
110 /*TCL commands*/
111 * commit;
112 * rollback;
113

```

Result Grid

Result: 13

Read Only | Control Help | Reports

Output

Action Output

#	Time	Action	Message	Duration / Fetch
1	22:10:49	SELECT * FROM animals JOIN shelters ON animals.shelter = shelters.id LIMIT 0, 1000	13 rows(s) returned	0.000 sec / 0.000 sec
2	22:11:07	SELECT * FROM adoptions JOIN animals ON adoptions.animal_id = animals.id WHERE animals.shelter = 1 LIMIT 0, 1000	2 rows(s) returned	0.000 sec / 0.000 sec
3	22:11:26	select distinct * from animals	13 rows(s) returned	0.000 sec / 0.000 sec
4	22:12:00	delete from animals where id = 13	1 rows(s) affected	0.000 sec

SQL Assistant

```

100
101 /*used of order by*/
102 * select * from animals order by id desc;
103
104 /*use of group by*/
105 * select gender,count(gender) from animals group by gender;

```

Result field: gender count(gender)

gender	count(gender)
Male	5
Female	6

Output

Action Output

#	Time	Action	Message	Duration / Patch
1	22:10:49	SELECT * FROM animals JOIN shelters ON animals.shelter = shelters.id LIMIT 5: 1000	11 rows(s) returned	0.000 sec / 0.000 sec
2	22:11:07	SELECT * FROM adoptions JOIN animals ON adoptions.animal_id = animals.id WHERE animals.shelter = 1 LIMIT 5: 1000	2 rows(s) returned	0.000 sec / 0.000 sec
3	22:11:23	select distinct * from animals LIMIT 5: 1000	12 rows(s) returned	0.000 sec / 0.000 sec
4	22:12:00	delete from animals where id = 1	1 rows(s) affected	0.001 sec
5	22:12:22	select gender,count(gender) from animals group by gender LIMIT 5: 1000	2 rows(s) returned	0.000 sec / 0.000 sec

SQL Assistant

```

110 /*Created 3rd table to make use of union and intersection*/
111 * CREATE TABLE animals2 (id int , name text, breed text,species text, color text, gender text, status INTEGER);
112 * INSERT INTO animals2 (id, name, breed,species, color, gender, status) VALUES ('1', 'Snowy', 'Husky', 'dog', 'White', 'female', 0),
113 ('2', 'Princess', 'Pomeranian', 'dog', 'Black', 'female', 0),
114 ('3', 'Irishcotti', 'ShihTzu', 'dog', 'Brown', 'Male', 0),
115 ('4', 'Princess', 'Poodle', 'dog', 'Purple', 'female', 0),
116 ('5', 'Spot', 'CockerSpaniel', 'dog', 'Black and White', 'Male', 0);
117

```

Result field: id name breed species color gender status

id	name	breed	species	color	gender	status
1	Snowy1	Husky	dog	White	Female	0
2	Princess	Pomeranian	dog	Black	Female	0
3	Cottontail	ShihTzu	dog	Brown	Male	0
4	Princess	Poodle	dog	Purple	Female	0
5	Spot	CockerSpaniel	dog	Black and White	Male	0

Output

Action Output

#	Time	Action	Message	Duration / Patch
1	22:12:50	CREATE TABLE animals2 (id int , name text, breed text,species text, color text, gender text, status INTEGER);	Created affected	0.238 sec
2	22:12:52	INSERT INTO animals2 (id, name, breed,species, color, gender, status) VALUES ('1', 'Snowy', 'Husky', 'dog', 'White', 'female', 0),	5 rows(s) affected Records: 0 Duplicates: 0 Warnings: 0	0.047 sec
3	22:12:56	delete from animals2 LIMIT 5: 1000	Created affected	0.000 sec / 0.000 sec

SQL Assistant

```

117
118 * select * from animals2;
119 * alter table animals2 add column shelter int;
120 * update animals2 set shelter= 1;
121
122
123
124
125
126
127
128

```

Output

Action Output

#	Time	Action	Message	Duration / Patch
1	22:13:36	delete from animals2 LIMIT 5: 1000	1 rows(s) returned	0.000 sec / 0.000 sec
2	22:13:39	alter table animals2 add column shelter int	2 rows(s) affected Records: 0 Duplicates: 0 Warnings: 0	0.161 sec
3	22:13:40	update animals2 set shelter= 1	1 rows(s) affected Rows modified: 1 Changed: 0 Warnings: 0	0.010 sec

SQL Assistant

```

31 /*use of union */
32 * SELECT * FROM animals UNION SELECT * FROM animals2;
33

```

Result Grid

id	name	breed	color	gender	status	species	shelter
1	Belly-Roe	Beagle	Brown	Male	0	Dog	1
2	Belly-Roe	Beagle	Brown	Male	0	Dog	1
3	Shirley	Husky	White	Female	0	Dog	1
4	Pinocchio	Pomeranian	Brown	Female	0	Dog	1
5	Cricket	Chihuahua	Brown	Male	1	Dog	1
6	Pinocchio	Poodle	Brown	Female	0	Dog	1
7	Spot	Labrador	Black and White	Male	1	Dog	1
8	Honey	Munchkin	Yellow	Female	0	Cat	1
9	Ash	Persian	Gray	Female	0	Cat	1
10	Tiger	Bengal	Brown	Male	0	Cat	1
11	Shirley	Beagle	Brown	Male	0	Dog	2
12	Sal	Tumbler	White	Female	0	CM	2
13	Shirley	Husky	Blue	White	Female	0	1

Output

Action Output

Time	Action	Message	Duration / Rows
1:00:14.00	SELECT * FROM animals UNION SELECT * FROM animals2	Query executed	0:01:00 sec / 0:00 sec

SQL Assistant

```

34 /*Intersect is not allowed in mysql so use of subqueries to do intersection*/
35 * SELECT DISTINCT * FROM animals
36 INNER JOIN animals2 USING (id);
37
38 * SELECT DISTINCT * FROM animals
39 WHERE id IN (SELECT id FROM animals2);
40

```

Result Grid

id	name	breed	color	gender	status	species	shelter
1	Belly-Roe	Beagle	Brown	Male	0	Dog	1
2	Belly-Roe	Beagle	Brown	Male	0	Dog	1
3	Shirley	Husky	White	Female	0	Dog	1
4	Pinocchio	Pomeranian	Brown	Female	0	Dog	1
5	Cricket	Chihuahua	Brown	Male	1	Dog	1

Output

Action Output

Time	Action	Message	Duration / Rows
1:02:18.04	SELECT DISTINCT * FROM animals INNER JOIN animals2 USING (id) LIMIT 0, 1000	Query executed	0:00:00 sec / 0:00 sec
2:02:16.07	SELECT DISTINCT * FROM animals WHERE id IN (SELECT id FROM animals2) LIMIT 0, 1000	Query executed	0:00:00 sec / 0:00 sec