

Команды создания таблиц:

```
CREATE TABLE IF NOT EXISTS animals
```

```
(  
    animalID INT NOT NULL PRIMARY KEY AUTO_INCREMENT,  
    animal_type VARCHAR(20)  
);
```

```
CREATE TABLE pack_animals
```

```
(  
    pack_animalID INT NOT NULL PRIMARY KEY AUTO_INCREMENT,  
    animalID INT,  
    pack_animal_type VARCHAR(20),  
    FOREIGN KEY(animalID) REFERENCES animals(animalID)  
);
```

```
CREATE TABLE pets
```

```
(  
    petID INT NOT NULL PRIMARY KEY AUTO_INCREMENT,  
    animalID INT,  
    pet_type VARCHAR(20),  
    FOREIGN KEY(animalID) REFERENCES animals(animalID)  
);
```

```
CREATE TABLE dogs
```

```
(  
    dogID INT NOT NULL PRIMARY KEY AUTO_INCREMENT,  
    petID INT,  
    dog_name VARCHAR(15),  
    date_of_birth DATE,  
    speed DOUBLE,  
    FOREIGN KEY(petID) REFERENCES pets(petID)  
);
```

```
CREATE TABLE cats
```

```
(
    catID INT NOT NULL PRIMARY KEY AUTO_INCREMENT,
    petID INT,
    cat_name VARCHAR(15),
    date_of_birth DATE,
    speed DOUBLE,
    FOREIGN KEY(petID) REFERENCES pets(petID)
);
```

CREATE TABLE hamsters

```
(
    hamsterID INT NOT NULL PRIMARY KEY AUTO_INCREMENT,
    petID INT,
    hamster_name VARCHAR(15),
    date_of_birth DATE,
    speed DOUBLE,
    FOREIGN KEY(petID) REFERENCES pets(petID)
);
```

CREATE TABLE horses

```
(
    horseID INT NOT NULL PRIMARY KEY AUTO_INCREMENT,
    pack_animalID INT,
    horse_name VARCHAR(15),
    date_of_birth DATE,
    speed DOUBLE,
    FOREIGN KEY(pack_animalID) REFERENCES pack_animals(pack_animalID)
);
```

```
CREATE TABLE camels
```

```
(
```

```
    camelID INT NOT NULL PRIMARY KEY AUTO_INCREMENT,
```

```
    pack_animalID INT,
```

```
    camel_name VARCHAR(15),
```

```
    date_of_birth DATE,
```

```
    speed DOUBLE,
```

```
    FOREIGN KEY(pack_animalID) REFERENCES pack_animals(pack_animalID)
```

```
);
```

```
CREATE TABLE donkeys
```

```
(
```

```
    donkeyID INT NOT NULL PRIMARY KEY AUTO_INCREMENT,
```

```
    pack_animalID INT,
```

```
    donkey_name VARCHAR(15),
```

```
    date_of_birth DATE,
```

```
    speed DOUBLE,
```

```
    FOREIGN KEY(pack_animalID) REFERENCES pack_animals(pack_animalID)
```

```
);
```

Команды заполнения таблиц:

```
INSERT INTO dogs (petID, dog_name, date_of_birth, speed)
```

```
VALUES
```

```
    (1, 'Bobik', '2019-12-12', 15.7),
```

```
    (3, 'Palkan', '2015-11-01', 13.1),
```

```
    (3, 'Zhuchka', '2021-01-12', 18.5);
```

```
INSERT INTO cats (petID, dog_name, date_of_birth, speed)
```

```
VALUES
```

```
    (1, 'Pushok', '2020-11-02', 6.8),
```

```
    (3, 'Barsik', '2017-10-05', 7.8),
```

```
(3, 'Snezhinka', '2021-05-11', 9.8);
```

```
INSERT INTO hamsters (petID, dog_name, date_of_birth, speed)
```

```
VALUES
```

```
(1, 'Grizzle', '2021-01-20', 2.4),
```

```
(3, 'Furry', '2022-06-07', 3.5),
```

```
(3, 'Lazy', '2023-05-16', 1.5);
```

```
INSERT INTO horses (petID, dog_name, date_of_birth, speed)
```

```
VALUES
```

```
(1, 'Turbo', '2017-03-24', 40.5),
```

```
(3, 'Freedom', '2015-08-02', 39.6),
```

```
(3, 'Whitesnow', '2016-01-12', 37.4);
```

```
INSERT INTO camels (petID, dog_name, date_of_birth, speed)
```

```
VALUES
```

```
(1, 'Giant', '2016-12-12', 25.1),
```

```
(3, 'Milka', '2017-11-01', 22.4),
```

```
(3, 'Coloss', '2017-07-12', 23.7);
```

```
INSERT INTO donkeys (petID, dog_name, date_of_birth, speed)
```

```
VALUES
```

```
(1, 'Tiny', '2016-08-07', 20.3),
```

```
(3, 'Bunny', '2017-04-01', 22.1),
```

```
(3, 'Heartbreaker', '2019-09-12', 21.7);
```

Таблицы:

SQL File 7* SQL File 8* SQL File 5* x

Limit to 1000 rows

```

1
2 • select * from pets left join dogs using (petID)
3   left join cats using (petID)
4   left join hamsters using (petID);

```

Result Grid | Filter Rows: | Export: | Wrap Cell Content: |

	petID	animalID	pet_type	dogID	dog_name	date_of_birth	speed	catID	cat_name	date_of_birth	speed	hamsterID	hamster_name	date_of_birth	speed
▶	1	1	Dog	1	Bobik	2019-12-12	15.7	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL
	1	1	Dog	2	Palkin	2015-11-01	13.1	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL
	1	1	Dog	3	Zhuchka	2021-01-12	18.5	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL
	2	1	Cat	NULL	NULL	NULL	NULL	1	Pushok	2020-11-02	6.8	NULL	NULL	NULL	NULL
	2	1	Cat	NULL	NULL	NULL	NULL	2	Barsik	2017-10-05	7.8	NULL	NULL	NULL	NULL
	2	1	Cat	NULL	NULL	NULL	NULL	3	Snezhinka	2021-05-11	9.8	NULL	NULL	NULL	NULL
	3	1	Hamster	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	1	Grizzle	2021-01-20	2.4
	3	1	Hamster	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	2	Furry	2022-06-07	3.5
	3	1	Hamster	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	3	Lazy	2023-05-16	1.5

Таблицы без верблюдов:

Limit to 1000 rows

```

1
2 • select * from pack_animals left join horses using (pack_animalID)
3   left join camels using (pack_animalID)
4   left join donkeys using (pack_animalID)
5   where pack_animalID != 2;

```

Result Grid | Filter Rows: | Export: | Wrap Cell Content: |

	pack_animalID	animalID	pack_animal_type	horseID	horse_name	date_of_birth	speed	camelID	camel_name	date_of_birth	speed	donkeyID	donkey_name	date_of_birth	speed
▶	1	2	Horse	1	Turbo	2017-03-24	40.5	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL
	1	2	Horse	2	Freedon	2015-08-02	39.6	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL
	1	2	Horse	3	Whitesnow	2016-01-12	37.4	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL
	3	2	Donkey	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	1	Tiny	2016-08-07	20.3
	3	2	Donkey	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	2	Bunny	2017-04-01	22.1
	3	2	Donkey	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	3	Heartbreaker	2019-09-12	21.7