P0501 - Nursery School Pets

Unnormalized

Student ID	Name	Age	Pet Name	Breed	Type
102	Heather Jones	8	Thomas	Siamese	Cat
			Peter	Jersey Wooly	Rabbit
105	Rachel Smith	10	Fluff	Persian	Cat
			Rex	Collie	Dog
101	Jimmy Johnson	11	Baxter	Hound	Dog
			Mandy	Siamese	Cat
104	Lola Jones	10	Thomas	Siamese	Cat
			Peter	Jersey Wooly	Rabbit
106	Peter Allen	9	Baxter	Beagle	Dog
			Ralph	Beagle	Dog
103	Lilly Sinclair	11	Rex	Bengal	Cat
			Max	Siamese	Cat

1NF

Student ID	Name	Age	Pet Name	Breed	Type
102	Heather Jones	8	Thomas	Siamese	Cat

102	Heather Jones	8	Peter	Jersey Wooly	Rabbit
105	Rachel Smith	10	Fluff	Persian	Cat
105	Rachel Smith	10	Rex	Collie	Dog
101	Jimmy Johnson	11	Baxter	Hound	Dog
101	Jimmy Johnson	11	Mandy	Siamese	Cat
104	Lola Jones	10	Thomas	Siamese	Cat
104	Lola Jones	10	Peter	Jersey Wooly	Rabbit
106	Peter Allen	9	Baxter	Beagle	Dog
106	Peter Allen	9	Ralph	Beagle	Dog
103	Lilly Sinclair	11	Rex	Bengal	Cat
103	Lilly Sinclair	11	Max	Siamese	Cat

2NF

STUDENT (**student_id**, name, age)

student_id	name	age
102	Heather Jones	8
105	Rachel Smith	10

101	Jimmy Johnson	11
104	Lola Jones	10
106	Peter Allen	9
103	Lilly Sinclair	11

PET (**pet_id**, pet_name, breed, type)

pet_id	pet_name	breed	type
201	Thomas	Siamese	Cat
202	Peter	Jersey Wooly	Rabbit
203	Fluff	Persian	Cat
204	Rex	Collie	Dog
205	Baxter	Hound	Dog
206	Mandy	Siamese	Cat
207	Baxter	Beagle	Dog
208	Ralph	Beagle	Dog
209	Rex	Bengal	Cat
210	Max	Siamese	Cat

STUDENT_PET (**student_id, pet_id**)

student_id	pet_id
102	201
102	202
105	203
105	204
101	205
101	206
104	201
104	202
106	207
106	208
103	209
103	210

3NF

STUDENT (**student_id**, name, age)

student_id	name	age
102	Heather Jones	8
105	Rachel Smith	10
101	Jimmy Johnson	11
104	Lola Jones	10
106	Peter Allen	9
103	Lilly Sinclair	11

TYPE(**type_id,** type)

type_id	type
1	Cat
2	Rabbit
3	Dog

BREED(**breed_id,** breed, *type_id)*

breed_id	breed	*type_id*
301	Siamese	1

302	Jersey Wooly	2
303	Persian	1
304	Collie	3
305	Hound	3
306	Beagle	3
307	Bengal	1

PET (**pet_id**, pet_name, *breed_id*)

pet_id	pet_name	*breed_id*
201	Thomas	301
202	Peter	302
203	Fluff	303
204	Rex	304
205	Baxter	305
206	Mandy	301
207	Baxter	306
208	Ralph	306

209	Rex	307
210	Max	301

STUDENT_PET (**student_id, pet_id**)

student_id	**pet_id**
102	201
102	202
105	203
105	204
101	205
101	206
104	201
104	202
106	207
106	208
103	209
103	210

STUDENT

PK	student_id
	name
	age

TYPE

PK	type_id
	type

STUDENT_PET

PK	student_id
PK	pet_id

BREED

PK	breed_id
	breed
FK	type_id

PET

PK	pet_id
	pet_name
FK	breed_id

has

Have

have