**P0501 - Nursery School Pets**

# Unnormalized

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

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# 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 |

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