**NORMALIZATION**

**HEALTH HISTORY**

PET ID PET NAME PET TYPE PET AGE OWNER VISIT DATE PROCEDURE

246 ROVER DOG 12 SAM COOK JAN 13/2002 01 - RABIES VACCINATION

MAR 27/2002 10 - EXAMINE and TREAT WOUND

APR 02/2002 05 - HEART WORM TEST

298 SPOT DOG 2 TERRY KIM JAN 21/2002 08 - TETANUS VACCINATION

MAR 10/2002 05 - HEART WORM TEST

341 MORRIS CAT 4 SAM COOK JAN 23/2001 01 - RABIES VACCINATION

JAN 13/2002 01 - RABIES VACCINATION

519 TWEEDY BIRD 2 TERRY KIM APR 30/2002 20 - ANNUAL CHECK UP

APR 30/2002 12 - EYE WASH

**First Normal Form**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **PETID** | **PETNAME** | **PET TYPE** | **PET AGE** | **OWNER** | **VISIT DATE** | **PROCEDU** |
| 246 | Rover Wound | Dog | 12 | Sam cook | Jan 13 2002 | 01-RabiesVaccination |
| 246 | Rover Wound | Dog | 12 | Sam Cook | Mar 27 2002 | 10-Examine and Treat |
| 246 | Rover Wound | Dog | 12 | Sam Cook | Apr 02 2002 | 05-Heart Worm Test |
| 298 | Spot | Dog | 2 | Terry kim | Jan 21 2002 | 08-Tetanus Vaccination |
| 298 | Spot | Dog | 2 | Terry Kim | Mar 10 2002 | 05-Heart Worm Test |
| 341 | Morries | Cat | 4 | Sam Cook | Jan 23 2001 | 01-Rabies vaccination |
| 341 | Morries | Cat | 4 | Sam cook | Jan 13 2002 | 01-Rabies vaccination |
| 519 | Tweedy | Bird | 2 | Terry Kim | Apr 30 2002 | 20-Annual Checkup |
| 519 | Tweedy | Bird | 2 | Terry Kim | Apr 30 2002 | 12- Eye Wash |

**Second Normal Form**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Pet ID** | **PET NAME** | **PET TYPE** | **PET AGE** | **OWNER** |
| 246 | Rover wound | Dog | 12 | Sam Cook |
| 298 | Spot | Dog | 2 | Terry Kim |
| 341 | Morries | Cat | 4 | Sam Cook |
| 519 | Tweedy | Bird | 2 | Terry Kim |

|  |  |  |
| --- | --- | --- |
| **PET ID** | **VISIT DATE** | **PROCEDURE Procedure id** |
| 246 | Jan 13 2002 | Rabies Vaccination 01 |
| 246 | Mar 27 2002 | Examine and Treat 10 |
| 246 | Apr 02 2002 | Heart Worm Test 05 |
| 298 | Jan 21 2002 | Tetanus vaccination 08 |
| 298 | Mar 10 2002 | Heart Worm Test 05 |
| 341 | Jan 23 2001 | Rabies Vaccination 01 |
| 341 | Jan 13 2002 | Rabies Vaccination 01 |
| 519 | Apr 30 2002 | Annual Check up 20 |
| 519 | Apr 30 2002 | Eye Wash 12 |

**Three Normal Form**

**Pet\_Details**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Pet ID** | **PET NAME** | **PET TYPE** | **PET AGE** | **OWNER** |
| 246 | Rover wound | Dog | 12 | Sam Cook |
| 298 | Spot | Dog | 2 | Terry Kim |
| 341 | Morries | Cat | 4 | Sam Cook |
| 519 | Tweedy | Bird | 2 | Terry Kim |

**PET\_details**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Pet ID(PK)** | **PET NAME** | **PET TYPE ID(FK)** | **PET AGE** | **OWNER ID(FK)** |

**Owner\_details**

|  |  |
| --- | --- |
| **OWNER** | **OWNER ID(PK)** |

**Pet\_Type**

|  |  |
| --- | --- |
| **PET TYPE** | **PET TYPE ID (PK)** |

**Visit\_Schedule**

|  |  |  |
| --- | --- | --- |
| **PETID(FK)** | **VISIT DATE** | **PROCEDUID(FK)** |
| 246 | Jan 13 2002 | 01 |
| 246 | Mar 27 2002 | 10 |
| 246 | Apr 02 2002 | 05 |
| 298 | Jan 21 2002 | 08 |
| 298 | Mar 10 2002 | 05 |
| 341 | Jan 23 2001 | 01 |
| 341 | Jan 13 2002 | 01 |
| 519 | Apr 30 2002 | 20 |
| 519 | Apr 30 2002 | 12 |

**Procedure\_Details**

|  |  |
| --- | --- |
| **PROCEDURE ID(PK)** | **PROCEDURE** |
| 01 | Rabies vaccination |
| 05 | Heart worm Test |
| 20 | Annual checkup |
| 12 | Examine and test |
| 08 | Tetnus vaccination |