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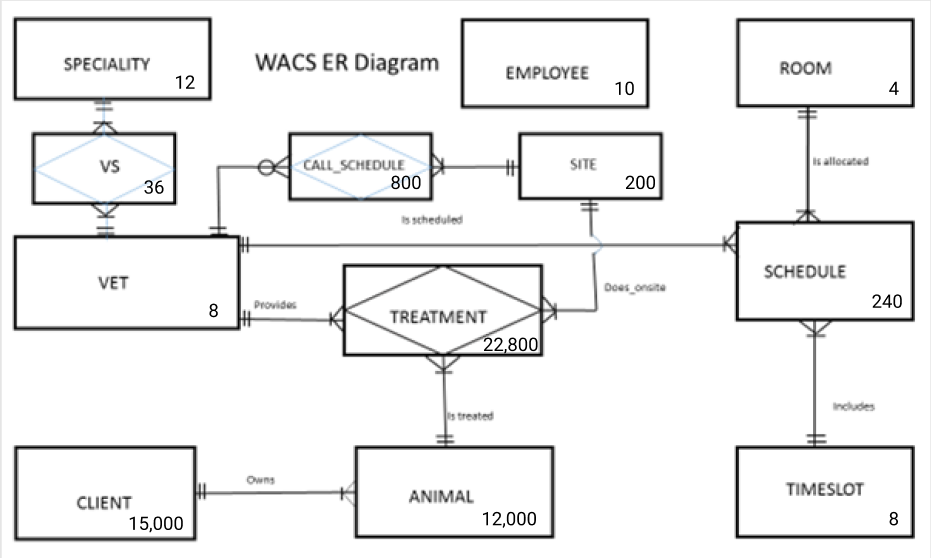
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# Introduction

The intro

# Physical Design

## Data Volume Map



Employee: 10  
Client: 15,000  
Animal: 12,000  
Vet: 8  
Room: 4  
Specialty: 12  
Timeslot: 8  
Schedule: 240  
Site: 200  
Call Schedule: 800  
VS: 36  
Treatment: 22,800

## Tables SQL Commands

## Data Insert Commands

## Database Diagram

## Index Files

## Possible De-Normalization

a. Suggestion 3 b. Table structure of the merged table with PK and FK indicated 4 c. Positive impact of the change 2 d. Negative impact of the change.

## Reports

### List of Clients

### List of Scheduled Vets

## Data Dictionary

### EMPLOYEE

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Column | Data Type | References | Default | Not Null |
| E# | int |  | identity |  |
| E\_Firstname | varchar(40) |  |  |  |
| E\_Surname | varchar(40) |  |  |  |
| StreetNo | varchar(10) |  |  |  |
| StreetName | varchar(50) |  |  |  |
| Suburb | varchar(50) |  |  |  |

### ROOM

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Column | Data Type | References | Default | Not Null |
| R# | int |  | identity |  |
| RoomName | varchar(30) |  |  |  |

### TIMESLOT

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Column | Data Type | References | Default | Not Null |
| Slot# | int |  | identity |  |
| Fromm | TIME(0) |  |  |  |
| Too | TIME(0) |  |  |  |

### VET

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Column | Data Type | References | Default | Not Null |
| V# | int |  | identity |  |
| V\_Firstname | varchar(40) |  |  |  |
| V\_Surname | varchar(40) |  |  |  |
| StreetNo | varchar(10) |  |  |  |
| StreetName | varchar(50) |  |  |  |
| Suburb | varchar(50) |  |  |  |
| ContactNo | varchar(35) |  |  |  |

### SPECIALITY

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Column | Data Type | References | Default | Not Null |
| SP# | int |  | identity |  |
| Description | varchar(200) |  |  |  |

### SITE

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Column | Data Type | References | Default | Not Null |
| Site# | int |  | identity |  |
| SiteType | varchar(25) |  |  |  |
| StreetNo | varchar(10) |  |  |  |
| StreetName | varchar(50) |  |  |  |
| Suburb | varchar(50) |  |  |  |

### VS

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Column | Data Type | References | Default | Not Null |
| V# | int | VET |  |  |
| SP# | int | SPECIALITY |  |  |

### CLIENT

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Column | Data Type | References | Default | Not Null |
| C# | int |  | identity |  |
| C\_Firstname | varchar(40) |  |  |  |
| C\_Surname | varchar(40) |  |  |  |
| StreetNo | varchar(10) |  |  |  |
| StreetName | varchar(50) |  |  |  |
| Suburb | varchar(50) |  |  |  |
| ContactNo | varchar(35) |  |  |  |

### ANIMAL

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Column | Data Type | References | Default | Not Null |
| A# | int |  | identity |  |
| AName | varchar(60) |  |  |  |
| C# | int | CLIENT |  |  |

### SCHEDULE

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Column | Data Type | References | Default | Not Null |
| Sch# | int |  | identity |  |
| V# | int | VET |  | Y |
| Slot# | int | TIMESLOT |  | Y |
| R# | int | ROOM |  | Y |
| Oncall | BIT |  |  |  |

### CALL\_SCHEDULE

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Column | Data Type | References | Default | Not Null |
| V# | int | VET |  |  |
| Site# | int | SITE |  |  |
| Fromm | TIME(0) |  |  |  |
| Too | TIME(0) |  |  |  |

### TREATMENT

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Column | Data Type | References | Default | Not Null |
| T# | int |  | identity |  |
| Date\_of\_Treatment | date |  |  |  |
| V# | int | VET |  |  |
| A# | int | ANIMAL |  |  |
| Site | int | SITE |  |  |
| Treatment\_Given | Varchar(200) |  |  |  |