

Information Management CA Report

Matthew Power

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1 Introduction

This is the first section.

2 7 Step Algorithm

The chosen ER model attempts to model a simple army. This model does not intend to be fully accurate but will contain some of the actual names of leaders/generals for the model. Many assumptions were made as a lot of aspects of the organization is not public for obvious reasons. From the report of the commission of the defense forces, there are diagrams of their proposed future command structure which the ER model will be based on.

3 Code

```
Create table soldier (  
    fname text,  
    lname text,  
    service_num int,  
    sex text,  
    curr_rank text,  
    salary int,  
    DOB date,  
    address text,  
    wounds text,
```

```

        Unum int ,
        primary key(service_num),

        foreign key (Unum) references unit(unumber)
);

Create table unit (
    uname text,
    unumber int,
    uhq text,
    leader_sn int,
    leader_startdate date,

    primary key (unumber),
    foreign key (leader_sn) references soldier(service_num)
);

create table branch (
    bname text,
    bnumber int,
    bhq int,
    commander_sn int,
    commander_startdate date,

    primary key (bnumber),
    foreign key (commander_sn) references soldier(service_num)
);

create table controls (
    branchnum int,
    opnumber int,
    months int,

    foreign key (branchnum) references branch(bnumber),
    foreign key (opnumber) references operation(Onumber)
);

create table operation (
    oname text,
    onumber int,
    mainopnum int,

    primary key (onumber)
);

```

```

create table dependant (
    dep_name text,
    soldierSN int,
    addressline text,
    phone_number int,
    relationship text,

    foreign key (soldiersn) references soldier(service_num)

);

create table baselocations (
    branchnum int,
    blocation text,

    foreign key(branchnum) references branch(bnumber)
);

create table oplocations (
    branchnum int,
    blocation text,

    foreign key(branchnum) references branch(bnumber)
);

create table wounds (
    soldier_servicenum int,
    wound text,
    operationnum int,

    foreign key (soldier_servicenum) references soldier(service_num),
    foreign key (operationnum) references operation(onumber)
);

alter table unit
add primary key (unumber)

alter table soldier
add foreign key (Unum) references unit(unumber)

```