

Suggestion Based Immune Vaccination Management System

Abstract :

Suggestion based immune vaccination management system is basically about vaccines that should be taken and that are already taken by people before. It stores data(Registration ID,Name,Gender,DateOfBirth,HealthIssues), it stores data ,who took which vaccine and when did they take, it tells the maximum possible age for all the vaccines that should be taken,it tells which vaccine is to be taken to prevent disease or a problem. So, in a nutshell, this project provides an insight into how suggestion based vaccination management can be implemented efficiently. It gives a detailed information about which vaccine is the best fit to prevent any life-threatening diseases.

REQUIREMENT ANALYSIS:

List of tables:

Candidate
Vaccine
Candidate_Vaccine

List of attributes with their domain types:

Candidate:

Registration Number:Registration_Number-Number()
gender:gender-varchar2()
name:name-varchar2()
Health issues at time of birth-varchar2()
Date of birth-date()

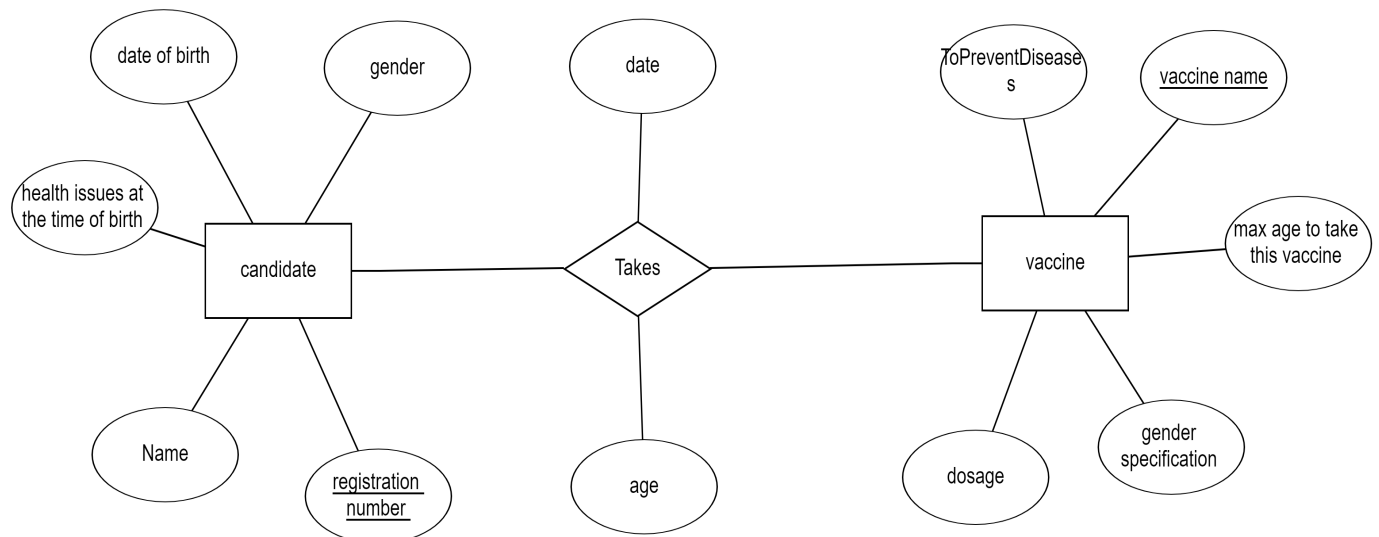
Vaccine:

Vaccinename:varchar2()
Maxagetogetvaccine-number()
Genderspecification-Varchar2()
Dosage-Number()
Toprevent-Varchar2()

Candidate_Vaccine:

Registration_id:Number()
Vaccinename:varchar2()
Day:date()
Ageatthetimeofvaccination:Number()

ER DIAGRAM:



MAPPING CARDINALITIES AND PARTICIPATION CONSTRAINTS:

One candiadate can take many vaccines,and a vaccine can be taken by many candidates on the same day,every vaccine is unique it prevents a special virus to attack or disease.Here one to many and many to one relationship is established.

Here there is primary key constraint,No two people can have same RegistrationID and no two vaccines can have same name ,as both of them are primary key(in different entities).

sql commands:DDL and DML commands:

```
SQL> create table candidate(RegistrationId Number(5) not null,Name varchar2(50) not null,DateOfBirth date not null,Gender Varchar2(10) not null,HealthIssues varchar2(200) not null,primary key(RegistrationId));
```

Table created.

```
SQL> insert into candidate
values(&RegistrationId,&Name','&DateOfBirth','&Gender','&HealthIssues');
Enter value for registrationid: 111
Enter value for name: Ayaz
Enter value for dateofbirth: 01-Jan-16
Enter value for gender: male
Enter value for healthissues: BornWithPolio
old 1: insert into candidate
values(&RegistrationId,&Name','&DateOfBirth','&Gender','&HealthIssues')
new 1: insert into candidate values(111,'Ayaz','01-Jan-16','male','BornWithPolio')
```

1 row created.

```
SQL> /
Enter value for registrationid: 112
Enter value for name: Tasneem
Enter value for dateofbirth: 02-Feb-17
Enter value for gender: female
Enter value for healthissues: NoHealthIssues
old 1: insert into candidate
values(&RegistrationId,&Name','&DateOfBirth','&Gender','&HealthIssues')
new 1: insert into candidate values(112,'Tasneem','02-Feb-17','female','NoHealthIssues')
```

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1 row created.

SQL> /

Enter value for registrationid: 113

Enter value for name: TejaSwaroop

Enter value for dateofbirth: 03-Feb-16

Enter value for gender: male

Enter value for healthissues: BornUnderWeight

old 1: insert into candidate

values(&RegistrationId,&Name','&DateOfBirth','&Gender','&HealthIssues')

new 1: insert into candidate values(113,'TejaSwaroop','03-Feb-16','male','BornUnderWeight')

1 row created.

SQL> /

Enter value for registrationid: 114

Enter value for name: UdayKiran

Enter value for dateofbirth: 04-mar-17

Enter value for gender: male

Enter value for healthissues: BornWithPolio

old 1: insert into candidate

values(&RegistrationId,&Name','&DateOfBirth','&Gender','&HealthIssues')

new 1: insert into candidate values(114,'UdayKiran','04-mar-17','male','BornWithPolio')

1 row created.

SQL> /

Enter value for registrationid: 115

Enter value for name: Varun

Enter value for dateofbirth: 05-dec-18

Enter value for gender: male

Enter value for healthissues: underweight

old 1: insert into candidate

values(&RegistrationId,&Name','&DateOfBirth','&Gender','&HealthIssues')

new 1: insert into candidate values(115,'Varun','05-dec-18','male','underweight')

1 row created.

SQL> /

Enter value for registrationid: 116

Enter value for name: Pranav

Enter value for dateofbirth: 06-oct-17

Enter value for gender: male

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Enter value for healthissues: BornOverweight

old 1: insert into candidate

values(&RegistrationId,&Name','&DateOfBirth','&Gender','&HealthIssues')

new 1: insert into candidate values(116,'Pranav','06-oct-17','male','BornOverweight')

1 row created.

SQL> /

Enter value for registrationid: 117

Enter value for name: VinayBabu

Enter value for dateofbirth: 07-nov-18

Enter value for gender: male

Enter value for healthissues: NoHealthIssues

old 1: insert into candidate

values(&RegistrationId,&Name','&DateOfBirth','&Gender','&HealthIssues')

new 1: insert into candidate values(117,'VinayBabu','07-nov-18','male','NoHealthIssues')

1 row created.

SQL> /

Enter value for registrationid: 118

Enter value for name: Vinuthna

Enter value for dateofbirth: 09-nov-18

Enter value for gender: Female

Enter value for healthissues: NoHealthIssues

old 1: insert into candidate

values(&RegistrationId,&Name','&DateOfBirth','&Gender','&HealthIssues')

new 1: insert into candidate values(118,'Vinuthna','09-nov-18','Female','NoHealthIssues')

1 row created.

SQL> /

Enter value for registrationid: 119

Enter value for name: Vyuha

Enter value for dateofbirth: 18-nov-18

Enter value for gender: female

Enter value for healthissues: UnderWeight

old 1: insert into candidate

values(&RegistrationId,&Name','&DateOfBirth','&Gender','&HealthIssues')

new 1: insert into candidate values(119,'Vyuha','18-nov-18','female','UnderWeight')

1 row created.

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SQL> /

Enter value for registrationid: 120

Enter value for name: Yashovardhan

Enter value for dateofbirth: 14-Feb-18

Enter value for gender: male

Enter value for healthissues: BornWithPolio

old 1: insert into candidate

values(&RegistrationId,&Name','&DateOfBirth','&Gender','&HealthIssues')

new 1: insert into candidate values(120,'Yashovardhan','14-Feb-18','male','BornWithPolio')

1 row created.

SQL>

SQL> create table vaccine(vaccine_name varchar2(20) not null,maxagetogetvaccine number(2,1) ,gender varchar2(6) not null,maximumTimes number(2),whocannottake varchar2(25));

Table created.

SQL> desc vaccine;

Name	Null?	Type
VACCINE_NAME	NOT NULL	VARCHAR2(20)
MAXAGETOGETVACCINE		NUMBER(2,1)
GENDER	NOT NULL	VARCHAR2(6)
MAXIMUMTIMES		NUMBER(2)
WHOCANNOTTAKE		VARCHAR2(25)

SQL> alter table vaccine modify(maximumTimes number(2) not null);

Table altered.

SQL> alter table vaccine modify(maxagetogetvaccine number(2,1) not null);

Table altered.

SQL> alter table vaccine modify(whocannottake varchar2(25) not null);

Table altered.

SQL> desc vaccine;

Name	Null?	Type
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```
-----  
VACCINE_NAME          NOT NULL VARCHAR2(20)  
MAXAGETOGETVACCINE    NOT NULL NUMBER(2,1)  
GENDER                NOT NULL VARCHAR2(6)  
MAXIMUMTIMES          NOT NULL NUMBER(2)  
WHOCANNOTTAKE         NOT NULL VARCHAR2(25)
```

SQL> alter table vaccine add primary key(vaccine_name);

Table altered.

SQL> desc vaccine;

```
Name                Null?   Type  
-----  
VACCINE_NAME          NOT NULL VARCHAR2(20)  
MAXAGETOGETVACCINE    NOT NULL NUMBER(2,1)  
GENDER                NOT NULL VARCHAR2(6)  
MAXIMUMTIMES          NOT NULL NUMBER(2)  
WHOCANNOTTAKE         NOT NULL VARCHAR2(25)
```

SQL> alter table vaccine rename column whocannottake to toprevent;

Table altered.

SQL> desc vaccine;

```
Name                Null?   Type  
-----  
VACCINE_NAME          NOT NULL VARCHAR2(20)  
MAXAGETOGETVACCINE    NOT NULL NUMBER(2,1)  
GENDER                NOT NULL VARCHAR2(6)  
MAXIMUMTIMES          NOT NULL NUMBER(2)  
TOPREVENT             NOT NULL VARCHAR2(25)
```

SQL> alter table vaccine rename column maximumtimes to dosage;

Table altered.

SQL> desc vaccine;

```
Name                Null?   Type  
-----  
VACCINE_NAME          NOT NULL VARCHAR2(20)  
MAXAGETOGETVACCINE    NOT NULL NUMBER(2,1)  
GENDER                NOT NULL VARCHAR2(6)
```

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DOSAGE NOT NULL NUMBER(2)
TOPREVENT NOT NULL VARCHAR2(25)

SQL> alter table vaccine modify(maxagetogetvaccine number(3));

Table altered.

SQL> create table takes(vaccine_name varchar2(20),registrationid number(5),day
date,ageofdayvaccination number(3,1),foreign key(vaccine_name) references vaccine,foreign
key(registrationid) references candidate);

Table created.

SQL> desc takes;

Name	Null?	Type
VACCINE_NAME		VARCHAR2(20)
REGISTRATIONID		NUMBER(5)
DAY		DATE
AGEONDAYOFVACCINATION		NUMBER(3,1)

SQL> insert into vaccine
values('&vaccine_name',&maxagetogetvaccine,&gender,&dosage,&toprevent');

Enter value for vaccine_name: DTAP

Enter value for maxagetogetvaccine: 6

Enter value for gender: all

Enter value for dosage: 5

Enter value for toprevent: Diphteria

old 1: insert into vaccine

values('&vaccine_name',&maxagetogetvaccine,&gender,&dosage,&toprevent')

new 1: insert into vaccine values('DTAP',6,'all',5,'Diphteria')

1 row created.

SQL> /

Enter value for vaccine_name: HepatatisA

Enter value for maxagetogetvaccine: 20

Enter value for gender: All

Enter value for dosage: 2

Enter value for toprevent: LiverDiseases

old 1: insert into vaccine

values('&vaccine_name',&maxagetogetvaccine,&gender,&dosage,&toprevent')

new 1: insert into vaccine values('HepatatisA',20,'All',2,'LiverDiseases')

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1 row created.

SQL> /

Enter value for vaccine_name: HepatitisB

Enter value for maxagetogetvaccine: 20

Enter value for gender: All

Enter value for dosage: 3

Enter value for toprevent: LiverCancer

old 1: insert into vaccine

values('&vaccine_name',&maxagetogetvaccine,'&gender',&dosage,'&toprevent')

new 1: insert into vaccine values('HepatitisB',20,'All',3,'LiverCancer')

1 row created.

SQL> /

Enter value for vaccine_name: Influenza

Enter value for maxagetogetvaccine: 18

Enter value for gender: all

Enter value for dosage: 1

Enter value for toprevent: InfluenzaVirus

old 1: insert into vaccine

values('&vaccine_name',&maxagetogetvaccine,'&gender',&dosage,'&toprevent')

new 1: insert into vaccine values('Influenza',18,'all',1,'InfluenzaVirus')

1 row created.

SQL> /

Enter value for vaccine_name: Measles

Enter value for maxagetogetvaccine: 12

Enter value for gender: all

Enter value for dosage: 2

Enter value for toprevent: measles

old 1: insert into vaccine

values('&vaccine_name',&maxagetogetvaccine,'&gender',&dosage,'&toprevent')

new 1: insert into vaccine values('Measles',12,'all',2,'measles')

1 row created.

SQL> /

Enter value for vaccine_name: polio

Enter value for maxagetogetvaccine: 18

Enter value for gender: all

Enter value for dosage: 10

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Enter value for toprevent: PolioVirus

old 1: insert into vaccine

values('&vaccine_name',&maxagetogetvaccine,'&gender',&dosage,'&toprevent')

new 1: insert into vaccine values('polio',18,'all',10,'PolioVirus')

1 row created.

SQL> insert into takes values('&VaccineName',®istrationid,'&Day',&AgeofdayVaccination);

Enter value for vaccinenamename: DTAP

Enter value for registrationid: 117

Enter value for day: 1-nov-19

Enter value for ageofdayvaccination: 1

old 1: insert into takes values('&VaccineName',®istrationid,'&Day',&AgeofdayVaccination)

new 1: insert into takes values('DTAP',117,'1-nov-19',1)

1 row created.

SQL> /

Enter value for vaccinenamename: Influenza

Enter value for registrationid: 120

Enter value for day: 14-feb-19

Enter value for ageofdayvaccination: 1

old 1: insert into takes values('&VaccineName',®istrationid,'&Day',&AgeofdayVaccination)

new 1: insert into takes values('Influenza',120,'14-feb-19',1)

1 row created.

SQL> /

Enter value for vaccinenamename: polio

Enter value for registrationid: 116

Enter value for day: 6-oct-19

Enter value for ageofdayvaccination: 2

old 1: insert into takes values('&VaccineName',®istrationid,'&Day',&AgeofdayVaccination)

new 1: insert into takes values('polio',116,'6-oct-19',2)

SQL> /

Enter value for vaccinenamename: polio

Enter value for registrationid: 119

Enter value for day: 18-nov-19

Enter value for ageofdayvaccination: 1

old 1: insert into takes values('&VaccineName',®istrationid,'&Day',&AgeofdayVaccination)

new 1: insert into takes values('polio',119,'18-nov-19',1)

1 row created.

```
SQL> insert into takes values('&VaccineName',&registrationid,&Day',&AgeofdayofVaccination);
Enter value for vaccinenamename: Measles
Enter value for registrationid: 115
Enter value for day: 01-jan-19
Enter value for ageofdayofvaccination: 1
old 1: insert into takes values('&VaccineName',&registrationid,&Day',&AgeofdayofVaccination)
new 1: insert into takes values('Measles',115,'01-jan-19',1)
```

1 row created.

```
SQL> insert into takes values('&VaccineName',&registrationid,&Day',&AgeofdayofVaccination);
Enter value for vaccinenamename: polio
Enter value for registrationid: 111
Enter value for day: 1-jan-2019
Enter value for ageofdayofvaccination: 3
old 1: insert into takes values('&VaccineName',&registrationid,&Day',&AgeofdayofVaccination)
new 1: insert into takes values('polio',111,'1-jan-2019',3)
```

1 row created.

```
SQL> /
Enter value for vaccinenamename: DTAP
Enter value for registrationid: 111
Enter value for day: 2-feb-19
Enter value for ageofdayofvaccination: 2
old 1: insert into takes values('&VaccineName',&registrationid,&Day',&AgeofdayofVaccination)
new 1: insert into takes values('DTAP',111,'2-feb-19',2)
```

1 row created.