

Group Member:

2461: Bhakti Ugale

2471: Snehal Wanekar

2472: Yashvi Bhutada

Batch: B4

DBMS MINI PROJECT**TOPIC : Vaccination management system****AIM:**

Vaccination management system : An easy and user-friendly way to manage vaccination data all over the country.

INTRODUCTION

- Databases **can store very large numbers of records efficiently** (they take up little space).
- It is very quick and easy to find information . It is easy to add new data and to edit or delete old data.
- Database management systems **help users share data quickly, effectively, and securely across an organization.**
- By providing quick solutions to database queries, a data management system enables faster access to more accurate data.

Our vaccination management system project enables users to book their vaccination slot according to their convenience in the nearest vaccination centers available.

RELEVANCE

This project is based on implementation of the real life system of vaccination booking that was used by the government of not only India, but multiple countries.

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Database : MySQL

Localhost Server : Apache Tomcat

Backend : JSP

GUI : HTML

Normalization

Normalization is the process of organizing data in a database. This includes creating tables and establishing relationships between those tables according to rules designed both to protect the data and to make the database more flexible by eliminating redundancy and inconsistent dependency.

● 1NF

1.No repeating values

2.No repeating columns

	Personal_Det
PK	Aadhar_No
	Name
	DOB
	Gender
	City

[Type here]

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	State
	Pincode
	MobNo
	emailId
	Pregnancy
	Diabetes
	Other_Ill
FK	Bene_No_of_Vac c
	pwd

	Centres_Detail
PK	C_code
	C_Name
	C_city
	C_state
	C_pincode
	TS1
	TS2
	Capacity

[Type here]

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	cv_amt
	cs_amt
	Covaxin_consm
	Covishield_consm p
PK	vacclId
	Vacc_Name

	Emp_det
PK	emplId
FK	C_code
	e_name
	DOB
	qualif
	eGender

	det_of_vacc
PK	Bene_no
	vacc_Name

[Type here]

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	status
	time
	Vacc_by
	ts
	v_date
FK	adhno

● 2NF

Here except centers table all table are in 3NF form

1.It should be in 1NF form

2.No partial dependency

Thus,

	Centres_Detail
PK	C_code
	C_Name
	C_city
	C_state
	C_pincode
	TS1
	TS2

[Type here]

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	Capacity
	cv_amt
	cs_amt
	Covaxin_consm p
	Covishield_consm p

	vacc_ids
PK	vacclId
	Vacc_Name

- **3NF**

	Personal_Det
PK	Aadhar_No
	Name
	DOB
	Gender

[Type here]

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	City
	State
	Pincode
	MobNo
	emailId
	Pregnancy
	Diabetes
	Other_Ill
FK	Bene_No_of_Vac c
	pwd

	det_of_vacc
PK	Bene_no
	vacc_Name
	status
	time
	Vacc_by
	ts
	v_date

[Type here]

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FK	adhno
----	-------

	Centres_Detail
PK	C_code
	C_Name
	C_city
	C_state
	C_pincode
	TS1
	TS2
	Capacity
	cv_amt
	cs_amt
	Covaxin_consm p
	Covishield_consm p

[Type here]

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Batch: B4**DESCRIPTION**

We have two main pages on frontend:

1.Login page

2.Registration page

- Login page :

Login page consist Employee login. One has to enter employee id, password and the aadhar number of person who has done his/her vaccination.

- Registration page :

If the applicant is new, he/she has to register first for the vaccine. In this he/she has to enter her/his personal details, vaccination details such as vaccine name, date of vaccination, etc.

Database description

We have created a database called Vaccination_Drive consisting following tables:

1.personal_det:

Table to store user information

Primary key : Aadhar_No

Foreign key : Bene_No_of_Vacc

Not null : pwd

[Type here]

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1.Aadhar_No	Varchar(15)
2.Name	Varchar(50)
3.DOB	Date
4.Gender	Varchar(20)
5.City	Varchar(30)
6.State	Varchar(30)
7.Pincode	Int
8.MobNo	Varchar(10)
9.emailId	Varchar(50)
10.Pregnancy	Varchar(5)
11.Diabetes	Varchar(5)
12.Other_Ill	Varchar(50)
13.Bene_No_of_Vacc	Varchar(15)
14.pwd	Varchar(50)

2.centres

Table to store center information

Primary key : C_code (auto_increment)

1.C_code	int
2.C_Name	Varchar(50)
3.C_city	Varchar(30)
4.C_state	Varchar(30)
5.C_pincode	int
6.TS1	Varchar(15)
7.TS2	Varchar(15)
8.Capacity	int
9.cv_amt	int
10.cs_amt	int

[Type here]

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11.covaxin_consumption	int
12.covishield_consumption	int

3.emp_det

Table to store employee information

Primary key : empld

Foreign key : C_code

1.empld	Varchar(15)
2.C_code	int
3.e_name	Varchar(50)
4.DOB	Date
5.qualif	Varchar(30)
6.eGender	Varchar(20)
7.pwd	varchar(20)

4.det_of_vacc

Table to store vaccination information

Primary key : Bene_no

Foreign key : adhno, Vacc_by

1.Bene_no	Varchar(15)
2.vacc_Name	Varchar(20)
3.status	Varchar(20)
4.v_time	time
5.ts	Varchar(15)
6.v_date	Date
7.Vacc_by	Varchar(15)

[Type here]

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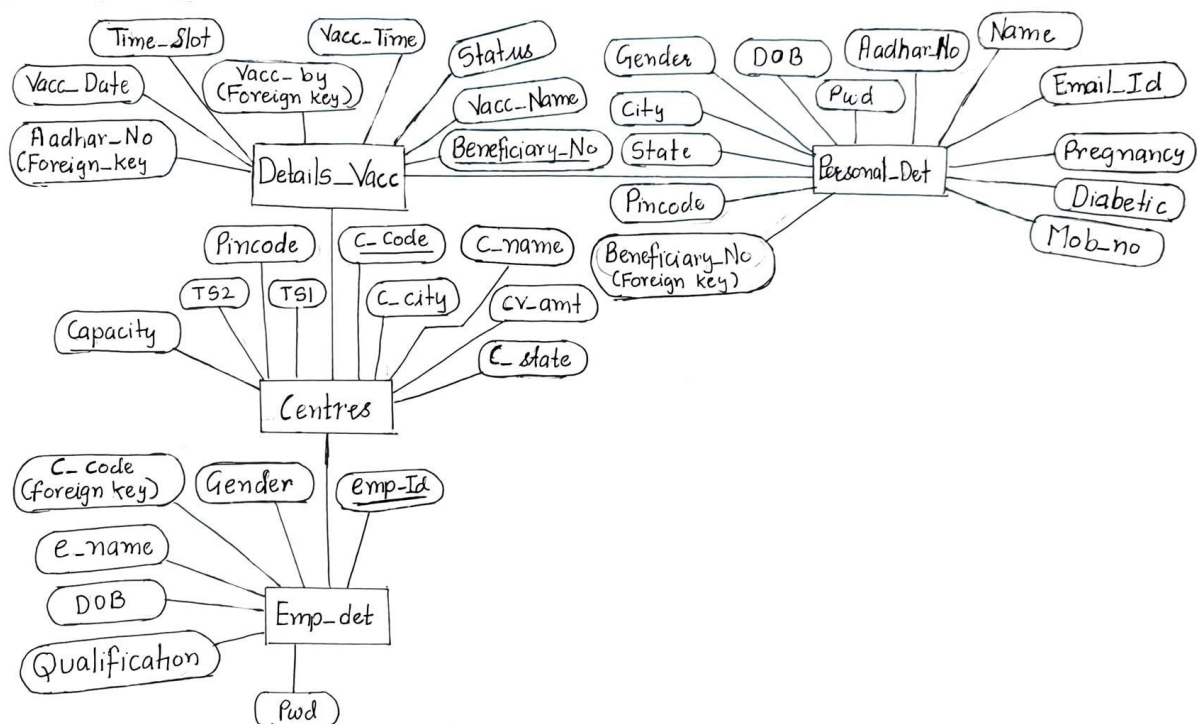
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8.adhno	Varchar(15)
---------	-------------

ERD**QUERIES**

- **BETWEEN()**
mysql> select count(empId) from Emp_det where (DOB between "1997-03-01" and "1997-04-01");

[Type here]

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```
+-----+
| count(empId) |
+-----+
|          2 |
+-----+
1 row in set (0.12 sec)
```

- **LIKE()**

To display employee id using year and month irrespective of date

mysql> select distinct empId,DOB from Emp_det where DOB like "1997-03%"
order by DOB;

```
+-----+-----+
| empId | DOB      |
+-----+-----+
| 100153 | 1997-03-07 |
| 100044 | 1997-03-10 |
+-----+-----+
2 rows in set (0.01 sec)
```

- **Subquery**

To display centres having maximum capacity

mysql> select C_code, C_Name from Centres where Capacity = (select
max(Capacity) from Centres);

```
+-----+-----+
| C_code | C_Name                |
+-----+-----+
| 10003 | Delhi Cantonment General Hospital |
| 10009 | Sky Garden Booth-1      |
| 10013 | SPS SDH Hospital Rishikesh    |
+-----+-----+
3 rows in set (0.01 sec)
```

- **ORDER BY**

To display centre table order by state

mysql> select * from Centres order by C_state;

```
+-----+-----+-----+-----+-----+-----+
+-----+-----+-----+-----+-----+-----+
+
| C_code | C_Name                | C_city | C_state |
C_pincode | TS1          | TS2          | Capacity | cv_amt | cs_amt |
cv_consump | cs_consump |
```

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+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----									
-+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----									
+									
10000	Aruna Asaf Ali Govt. Hospital					Central	Delhi		
110054	8:00 AM - 10:00 AM		11:00 AM - 1:00 PM		400	300	100		
0	0								
10001	Balak Ram Hospital					Central	Delhi		
110054	8:00 AM - 10:00 AM		11:00 AM - 1:00 PM		300	200	100		
0	0								
10002	Burari Hospital					Central	Delhi		
110084	8:00 AM - 10:00 AM		11:00 AM - 1:00 PM		400	300	100		
0	0								
10003	Delhi Cantonment General Hospital					New Delhi	Delhi		
110010	8:00 AM - 10:00 AM		11:00 AM - 1:00 PM		600	400	200		
	0	0							
10004	Northern Railways Hospital					New Delhi	Delhi		
110001	8:00 AM - 10:00 AM		11:00 AM - 1:00 PM		400	300	100		
0	0								
10005	Doctor Hedgewar Arogya Sansthan DH					Shahdara			
Delhi	110032	9:00 AM - 11:00 AM		1:00 AM - 3:00 PM		300			
200	100	0	0						
10006	Rajiv Gandhi Super Speciality Hospital Tahirpur DH					Shahdara			
Delhi	110095	9:00 AM - 11:00 AM		1:00 AM - 3:00 PM		400			
300	100	0	0						
10007	All India Institute of Medical Sciences					South	Delhi		
110029	9:00 AM - 11:00 AM		1:00 AM - 3:00 PM		400	200	200		
0	0								
10008	Acharya Shree Bhikshuk Govt Hospital					East	Delhi		
110029	9:00 AM - 11:00 AM		1:00 AM - 3:00 PM		500	400	100		
	0	0							
10042	PHC TRENT					Ahmedabad	Gujarat		
382130	8:00 AM - 10:00 AM		11:00 AM - 1:00 PM		400	300	100		
0	0								
10043	ANGANWADI KARELI					Surat	Gujarat		
394110	8:00 AM - 10:00 AM		11:00 AM - 1:00 PM		300	200	100		
0	0								
10044	BORASARA PALOD ANGANWADI 2					Surat			
Gujarat	394110	8:00 AM - 10:00 AM		11:00 AM - 1:00 PM		300			
300	0	0	0						
10045	CHC OLPAD					Surat	Gujarat		
394540	8:00 AM - 10:00 AM		11:00 AM - 1:00 PM		300	200	100		
0	0								

[Type here]

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10046 HOJIWALA HC UDHYOG NAGAR VANZ	Surat	
Gujarat 394235 8:00 AM - 10:00 AM 11:00 AM - 1:00 PM	400	
300 100	0	0
10047 PHC BODHAN	Surat	Gujarat
394140 8:00 AM - 10:00 AM 11:00 AM - 1:00 PM	500	300 200
0	0	
10041 PHC DHOLERA	Ahmedabad	Gujarat
382455 8:00 AM - 10:00 AM 11:00 AM - 1:00 PM	400	300 100
0	0	
10038 CHC DHANDHUKA 1	Ahmedabad	Gujarat
382460 8:00 AM - 10:00 AM 11:00 AM - 1:00 PM	400	300
100	0	0
10039 NANI JOK ANGANWADI-DHK	Ahmedabad	
Gujarat 382460 8:00 AM - 10:00 AM 11:00 AM - 1:00 PM	200	
200	0	0 0
10040 PARA ANGANWADI-2 BHUVALADI	Ahmedabad	
Gujarat 382430 8:00 AM - 10:00 AM 11:00 AM - 1:00 PM	300	
200	100	0 0
10024 PCMC KHBP M.KUTE M HOSP AKURDI	Pune	
Maharashtra 411035 9:00 AM - 11:00 AM 1:00 AM - 3:00 PM	400	
300	100	0 0
10020 DISTRICT HOSPITAL AUNDH	Pune	
Maharashtra 411027 9:00 AM - 11:00 AM 1:00 AM - 3:00 PM	400	
300	100	0 0
10021 PCMC ANKUSHRAO LANDGE NATYAGRU	Pune	
Maharashtra 411039 9:00 AM - 11:00 AM 1:00 AM - 3:00 PM	300	
	200	100 0 0
10022 PCMC APOLO CLINIC	Pune	
Maharashtra 411044 9:00 AM - 11:00 AM 1:00 AM - 3:00 PM	400	
300	100	0 0
10023 PCMC JADHAVWADI PCMC SCHOOL	Pune	
Maharashtra 412105 9:00 AM - 11:00 AM 1:00 AM - 3:00 PM	200	
200	0	0 0
10025 ADMIRE EYE CARE	Mumbai	
Maharashtra 400104 8:00 AM - 10:00 AM 11:00 AM - 1:00 PM	500	
400	100	0 0
10026 ADVANCED MULTI SPECIALTY HOSP	Mumbai	
Maharashtra 400056 8:00 AM - 10:00 AM 11:00 AM - 1:00 PM	300	
200	100	0 0
10027 AMEYA SURGICAL AND GENERAL NH	Mumbai	
Maharashtra 400059 8:00 AM - 10:00 AM 11:00 AM - 1:00 PM	200	
200	0	0 0

[Type here]

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10028 APEX HOSPITALS MULUND	Mumbai
Maharashtra 400080 8:00 AM - 10:00 AM 11:00 AM - 1:00 PM	300
300 0 0 0	
10030 APOLLO CLINIC COLABA	Mumbai
Maharashtra 400005 8:00 AM - 10:00 AM 11:00 AM - 1:00 PM	400
300 100 0 0	
10029 APOLLO CLINIC ANDHERI (E)	Mumbai
Maharashtra 400093 8:00 AM - 10:00 AM 11:00 AM - 1:00 PM	300
200 100 0 0	
10031 ARYAN HOSPITAL MEDICAL CENTRE	Mumbai
Maharashtra 400024 8:00 AM - 10:00 AM 11:00 AM - 1:00 PM	300
200 100 0 0	
10034 PARAS JK HOSPITAL	Udaipur Rajasthan
313001 8:00 AM - 10:00 AM 11:00 AM - 1:00 PM	200 200 0
0 0	
10036 MARBLE CITY SITE 1	Ajmer Rajasthan
305801 9:00 AM - 11:00 AM 1:00 AM - 3:00 PM	300 200 100
0 0	
10037 PHC DANTRA SITE 1	Ajmer Rajasthan
305207 9:00 AM - 11:00 AM 1:00 AM - 3:00 PM	200 200 0
0 0	
10032 DISTRICT HOSPITAL CHANDPOL	Udaipur
Rajasthan 313001 8:00 AM - 10:00 AM 11:00 AM - 1:00 PM	300
300 0 0 0	
10033 GMCH EKLINGPURA	Udaipur Rajasthan
313003 8:00 AM - 10:00 AM 11:00 AM - 1:00 PM	300 200
100 0 0	
10035 UPHC BHOPALPURA	Udaipur Rajasthan
313001 9:00 AM - 11:00 AM 1:00 AM - 3:00 PM	300 300 0
0 0	
10009 Sky Garden Booth-1	Dehradun Uttarakhand
248001 8:00 AM - 10:00 AM 11:00 AM - 1:00 PM	600 300
300 0 0	
10010 ST. Paul Health Centre	Dehradun Uttarakhand
248002 8:00 AM - 10:00 AM 11:00 AM - 1:00 PM	400 200
200 0 0	
10011 Cantt. General Hospital C Town	Dehradun
Uttarakhand 248002 8:00 AM - 10:00 AM 11:00 AM - 1:00 PM	400
300 100 0 0	
10012 PHC Bhaniyawala	Dehradun Uttarakhand
248145 8:00 AM - 10:00 AM 11:00 AM - 1:00 PM	400 400 0
0 0	

[Type here]

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```
| 10013 | SPS SDH Hospital Rishikesh | Dehradun |
Uttarakhand | 249201 | 8:00 AM - 10:00 AM | 11:00 AM - 1:00 PM | 600 |
400 | 200 | 0 | 0 |
| 10014 | PHC Dudhli | Dehradun | Uttarakhand |
248140 | 8:00 AM - 10:00 AM | 11:00 AM - 1:00 PM | 400 | 200 | 200 |
0 | 0 |
| 10015 | PHC Nayagaon Pelio | Dehradun | Uttarakhand |
| 248001 | 8:00 AM - 10:00 AM | 11:00 AM - 1:00 PM | 400 | 200 |
200 | 0 | 0 |
| 10016 | Ayushman Medplus Hospital | Dehradun |
Uttarakhand | 248197 | 8:00 AM - 10:00 AM | 11:00 AM - 1:00 PM | 400 |
400 | 0 | 0 | 0 |
| 10017 | Beehive Ayurved Hospital | Dehradun |
Uttarakhand | 248007 | 9:00 AM - 11:00 AM | 1:00 AM - 3:00 PM | 400 |
300 | 100 | 0 | 0 |
| 10019 | Nirankari Bhawan Jeewangarh (SDH) | Dehradun |
Uttarakhand | 248198 | 9:00 AM - 11:00 AM | 1:00 AM - 3:00 PM | 300 |
200 | 100 | 0 | 0 |
| 10018 | K.K.B.M Subharti Hospital | Dehradun |
Uttarakhand | 248008 | 9:00 AM - 11:00 AM | 1:00 AM - 3:00 PM | 500 |
300 | 200 | 0 | 0 |
+-----+-----+-----+-----+-----+-----+-----+
+-----+-----+-----+-----+-----+-----+-----+
+
48 rows in set (0.00 sec)
```

- **INDEX**

To display index of centre table

```
mysql> create index Cname on Centres(C_Name);
```

```
Query OK, 0 rows affected (0.12 sec)
```

```
Records: 0 Duplicates: 0 Warnings: 0
```

```
mysql> show indexes from Centres;
```

```
+-----+-----+-----+-----+-----+-----+-----+
+-----+-----+-----+-----+-----+-----+-----+
| Table | Non_unique | Key_name | Seq_in_index | Column_name | Collation |
| Cardinality | Sub_part | Packed | Null | Index_type | Comment |
Index_comment | Visible | Expression |
+-----+-----+-----+-----+-----+-----+-----+
+-----+-----+-----+-----+-----+-----+-----+
```

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```
| centres |      0 | PRIMARY |      1 | C_code | A      |      48 |
NULL | NULL | BTREE |      | YES | NULL |
| centres |      1 | Cname |      1 | C_Name | A      |      48 |
NULL | NULL | YES | BTREE | YES | NULL |
+-----+-----+-----+-----+-----+-----+-----+
--+-----+-----+-----+-----+-----+-----+
2 rows in set (0.04 sec)
```

- **LIMIT**

To display first 3 centres information

```
mysql> select * from Centres limit 3;
+-----+-----+-----+-----+-----+-----+-----+
-----+-----+-----+-----+-----+-----+
| C_code | C_Name | C_city | C_state | C_pincode | TS1 |
| TS2 | Capacity | cv_amt | cs_amt | cv_consump | cs_consump |
+-----+-----+-----+-----+-----+-----+-----+
-----+-----+-----+-----+-----+-----+
| 10000 | Aruna Asaf Ali Govt. Hospital | Central | Delhi | 110054 | 8:00 AM -
10:00 AM | 11:00 AM - 1:00 PM | 400 | 300 | 100 | 0 | 0 |
| 10001 | Balak Ram Hospital | Central | Delhi | 110054 | 8:00 AM -
10:00 AM | 11:00 AM - 1:00 PM | 300 | 200 | 100 | 0 | 0 |
| 10002 | Burari Hospital | Central | Delhi | 110084 | 8:00 AM -
10:00 AM | 11:00 AM - 1:00 PM | 400 | 300 | 100 | 0 | 0 |
+-----+-----+-----+-----+-----+-----+-----+
-----+-----+-----+-----+-----+-----+
3 rows in set (0.00 sec)
```

- **INNER JOIN**

Here we are joining Emp_det and Centres column using inner join

```
mysql> select Centres.C_Name, Emp_det.e_name from Centres inner join
Emp_det on Centres.C_code = Emp_det.C_code limit 5;
+-----+-----+
| C_Name | e_name |
+-----+-----+
| Acharya Shree Bhikshuk Govt Hospital | Kavya Patil |
| Acharya Shree Bhikshuk Govt Hospital | Vaibhav Bhatt |
| Acharya Shree Bhikshuk Govt Hospital | Arpit Kulkarni |
```

[Type here]

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```
| Acharya Shree Bhikshuk Govt Hospital | Sparsh Madan |  
| ADMIRE EYE CARE | Hriday Sinha |  
+-----+-----+  
5 rows in set (0.00 sec)
```

- **FUNCTION**

Function which determines whether applicant has booked vaccine or not

```
mysql> create function isBooked(adhno varchar(15))
```

```
-> returns int
```

```
-> begin
```

```
-> declare is_b int default 0;
```

```
-> declare bno int default -1;
```

```
-> set bno=(select bno from personal_det where Aadhar_No=adhno);
```

```
-> if bno!=-1 then
```

```
-> set is_b=1;
```

```
-> end if;
```

```
-> return is_b;
```

```
-> end//
```

```
Query OK, 0 rows affected (0.01 sec)
```

- **VIEW**

View to display information about vaccines available

```
mysql> create view vacc_info (Centre_Id, Pin_Code, City, State, Covaxin, Covishield)
```

```
-> as select C_code, C_pincode, C_city, C_state, cv_amt, cs_amt from centres;
```

```
Query OK, 0 rows affected (0.05 sec)
```

- **PROCEDURES**

- **Procedure to find covid centers nearby**

```
mysql> DELIMITER //
```

```
mysql> create procedure find_centre(IN st varchar(30), IN ct varchar(30), IN pin int)
```

```
-> BEGIN
```

```
-> select * from centres where (C_state = st AND C_city = ct) OR (C_pincode =  
pin);
```

```
-> END
```

```
-> //
```

- **Procedure to book vaccine**

```
mysql> create procedure Book(in ad varchar(12), in bene varchar(15), in v_name  
varchar(20), in ts varchar(15), in vd date)
```

```
begin
```

[Type here]

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```
insert into det_of_vacc(Bene_no, vacc_Name, status, ts, v_date, adhno)
values(bene, v_name, "Not Vaccinated", ts, vd, ad);
end//
```

- **Procedure to update vaccine status of person**

```
mysql> create procedure getVaccine(in ad varchar(12), in id varchar(15))
begin
update det_of_vacc set status="Vaccinated", v_time=now(), Vacc_by=id,
v_date=curdate() where adhno=ad;
end//
```

- **Procedure to reduce covaxine count and increment its consumption after each vaccination**

```
mysql> create procedure up_cv(in ad varchar(12))
-> begin
-> declare amt int default 0;
-> declare cmp_amt int default 0;
-> declare cde int default 0;
-> select C_code into cde from emp_det where empld=(select Vacc_by from det_of_vacc
where det_of_vacc.adhno=ad);
-> select cv_amt into amt from centres where C_code=cde;
-> select cv_consump into cmp_amt from centres where C_code=cde;
-> update centres set centres.cv_amt=amt-1, centres.cv_consump=cmp_amt+1 where
C_code=cde;
-> end//
Query OK, 0 rows affected (0.01 sec)
```

- **Procedure to reduce covishield count and increment its consumption after each vaccination**

```
mysql> create procedure up_cs(in ad varchar(12))
-> begin
-> declare amt int default 0;
-> declare cmp_amt int default 0;
-> declare cde int default 0;
-> select C_code into cde from emp_det where empld=(select Vacc_by from det_of_vacc
where det_of_vacc.adhno=ad);
-> select cs_amt into amt from centres where C_code=cde;
-> select cs_consump into cmp_amt from centres where C_code=cde;
-> update centres set centres.cs_amt=amt-1, centres.cs_consump=cmp_amt+1 where
C_code=cde;
-> end//
Query OK, 0 rows affected (0.01 sec)
```

[Type here]

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Batch: B4

- **TRIGGER**
- **Trigger to update vaccination availability and consumption**

```
mysql> create trigger after_det_of_vacc_update
```

```
-> after update
```

```
-> on det_of_vacc
```

```
-> for each row
```

```
-> begin
```

```
-> declare vN varchar(20);
```

```
-> set vN=new.vacc_Name;
```

```
-> if vN="Covaxine" then
```

```
-> call up_cv(new.adhno);
```

```
-> elseif vN="Covshield" then
```

```
-> call up_cs(new.adhno);
```

```
-> end if;
```

```
-> end//
```

```
Query OK, 0 rows affected (0.02 sec)
```

CONCLUSION

Through this project we have implemented a working model for booking vaccines and storing the data on whether a person is vaccinated or not.

Similar systems can also be implemented for booking for various other purposes, for e.g., systems for enrolling in government programs can be based on this system model, and many other ideas can be implemented through this system.

This project has helped us improve our understanding on using and connecting different technologies.

REFERENCES

[Type here]

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<https://dev.mysql.com/doc/refman/8.0/en/>

<https://docs.oracle.com/javaee/5/tutorial/doc/bnajo.html>

<https://developer.mozilla.org/en-US/docs/Web/HTML>