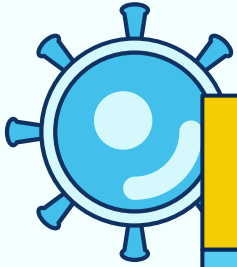


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BCI2023 - DATABASE SYSTEMS
SEMESTER 1 2021/2022



Vaccine Management System

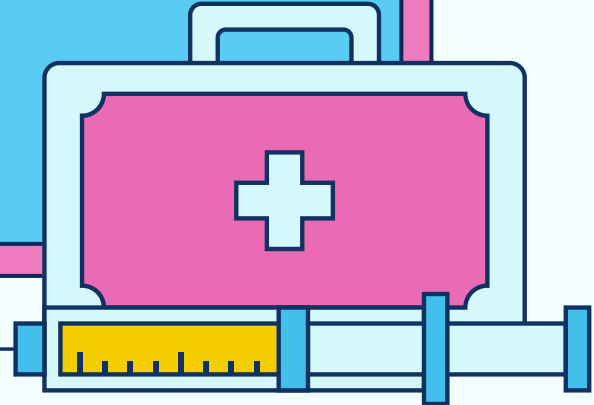


Table of contents



01

INTRODUCTION

02

**CASE
STUDY**

03

**BUSINESS
RULES**

04

ERD/EERD

05

NORMALIZATION

06

SQL

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INTRODUCTION



your health is our priority

Vaccine Management System is the system that could provide accurate information of Covid-19 vaccine. In this project, we would like to develop a database management system for vaccine call MyVax which is a short form for Malaysia vaccine. MyVax is an application developed to assist Malaysians in the process of getting their vaccinations.

Scope:

System scope: 1. Provide online registration for the users.
2. Provide vaccine certificate.

User scope: 1. Create an account and log in to the system.
2. Make registration for the vaccines.

CASE STUDY



MySejahtera



MySejahtera is an application developed by the Government of Malaysia to assist in monitoring Covid-19 outbreak in the country by empowering users to assess their health risk against Covid-19.

5 entities: Patient, Appointment, Vaccine, Certificate, Center



**Selangkah
VAX**



Main function of this application same with MySejahtera but has more use in term of vaccine registration compare to MySejahtera.

10 entities: Patient, Appointment, Vaccine, Certificate, Center, Company, Doctor, Nurse, Volunteer, Police



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ATTRIBUTES & PRIMARY KEY



ENTITY	ATTRIBUTES	PRIMARY KEY
Patient	p_ID, p_Name, phone_No, p_DOB, p_Address, p_Age	p_ID
Appointment	p_ID, ppv_ID, app_Date, slot	p_ID
Vaccine	vac_No, p_ID, vac_Type, batch_No	vac_No
Company	c_ID, p_ID, c_Name, p_Name, c_Address, office_No	p_ID
Certificate	batch_No, p_ID, ppv_ID, vac_Type, app_Date, vac_Status	batch_No
Center	ppv_ID, p_ID, ppv_Name, app_Date	p_ID
Doctor	d_ID, ppv_ID, staff_Name, phone_No, hospital_Name	d_ID
Nurse	n_ID, ppv_ID, staff_Name, phone_No, hospital_Name	n_ID
Volunteer	v_ID, ppv_ID, staff_Name, phone_No, home_Address	v_ID
Police	po_ID, ppv_ID, staff_Name, phone_No, station_Name	po_ID

BUSINESS RULES & RELATIONSHIP

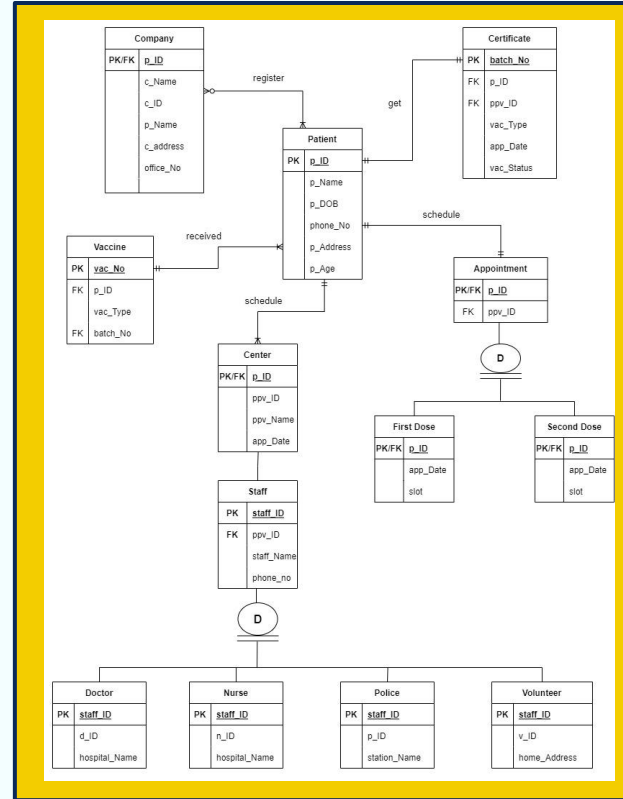
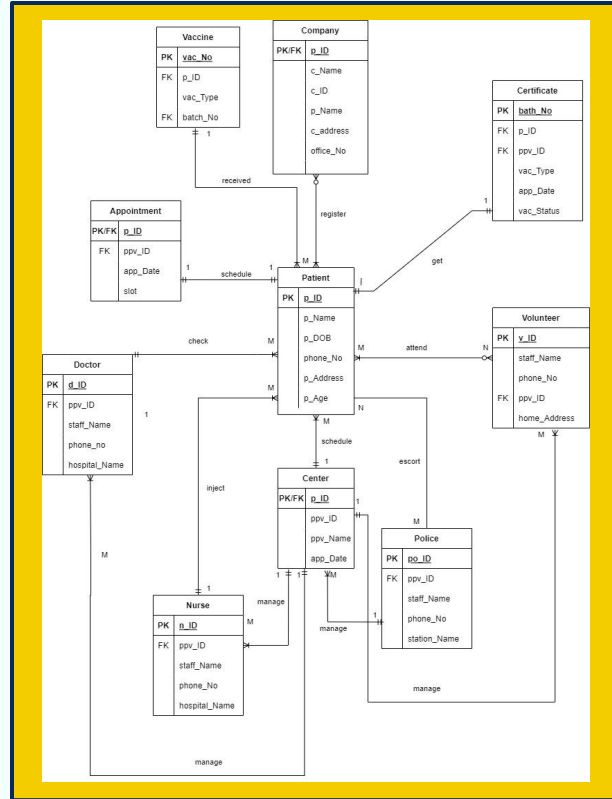


ENTITY	RELATIONSHIP	ENTITY	BUSINESS RULES
Center	M:1	Doctor	<ul style="list-style-type: none">• One center may be managed by one or many doctors.• One doctor may manage one and only one center at one time.
	M:1	Police	<ul style="list-style-type: none">• One center may be guarded by one and or many police officers.• One police officer may guard one and only one center at one time.
	M:1	Nurse	<ul style="list-style-type: none">• One center may be managed by one or many nurses.• One nurse may manage one and only one center at one time.
	M:1	Volunteer	<ul style="list-style-type: none">• One center may be attended by one or many volunteer staff.• One volunteer staff may attend one and only one center at one time.

+++++

ENTITY	RELATIONSHIP	ENTITY	BUSINESS RULES
Patient	1:1	Appointment	<ul style="list-style-type: none"> One patient may schedule for one and only one appointment. One appointment is scheduled for one and only one patient.
	M:1	Vaccine	<ul style="list-style-type: none"> One patient may receive one and only one type of vaccine. One type of vaccine may be taken by one or many patients.
	1:M	Center	<ul style="list-style-type: none"> One patient can be scheduled to one and only one center only. One center can have many patients at one time.
	M:N	Company	<ul style="list-style-type: none"> One patient can be registered for a vaccine by one company or none. One company can register one or many patients to get vaccines.
	1:1	Certificate	<ul style="list-style-type: none"> One patient may get one and only one certificate. One certificate may be given to one and only one patient.
	1:M	Doctor	<ul style="list-style-type: none"> One patient can be checked by one and only one doctor only. One doctor can check many patients.
	M:N	Police	<ul style="list-style-type: none"> One patient may be escorted by one or many police officers at one time. One police officer may escort many or none patients.
	1:M	Nurse	<ul style="list-style-type: none"> One patient can be injected for the vaccine by one and only one nurse. One nurse can inject many patients.
	M:N	Volunteers	<ul style="list-style-type: none"> One patient can be attended by one or many volunteer staff at one time. One volunteer staff may attend for one or none patients.

ERD & EERD



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NORMALIZATION



1NF

Patients (p_ID, c_ID, batch_No, vac_No, v_ID, ppv_ID, p_Name, n_ID, po_ID, phone_No, p_Address, p_Age, vac_Type, app_Date, slot, ppv_Name, home_Address, vac_Type, vac_Status,)

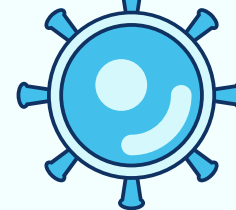
2NF

Volunteer (v_ID, ppv_ID, p_ID, staff_Name, home_Address)

Polices (po_ID, ppv_ID, staff_Name, phone_No, station_Name, p_ID, ppv_Name)

Nurse (n_ID, ppv_ID, staff_Name, phone_No, hospital_Name, p_ID, ppv_Name)

Doctor (d_ID, ppv_ID, staff_Name, phone_No, hospital_Name, p_ID, ppv_Name)



3NF

Company (c_ID, c_Name, p_ID, p_Name, c_address, office_No)

Vaccine (vac_No, p_ID, vac_Type, batch_No)

Appointment (p_ID, ppv_ID, app_Date, slot)

Doctor (d_ID, ppv_ID, staff_Name, phone_No, hospital_Name)

Nurse (n_ID, staff_Name, phone_No, hospital_Name)

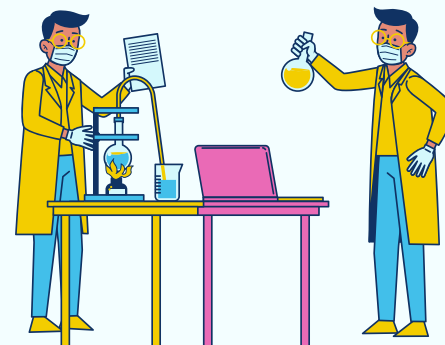
Center (ppv_ID, p_ID, ppv_Name, app_Date)

Police (no_ID, ppv_ID, staff_Name, phone_No, station_Name)

Volunteer (v_ID, staff_Name, phone_No, ppv_ID, home_Address)

Certificate (batch_No, p_ID, ppv_ID, vac_Type, app_Date, vac_Status)

Patient (p_ID, p_Name, p_DOB, phone_No, p_Address, p_Age)



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All Functional Dependencies

Fully Functional Dependencies

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$\text{vac_No}, \text{ppv_ID}, \text{batch_No} \longrightarrow \text{p_Id}$

Partial Dependencies

$\text{p_ID} \longrightarrow \text{ppv_ID}, \text{ppv_Name}, \text{app_Date}, \text{staff_Name}, \text{phone_No}, \text{home_Address}, \text{station_Name}, \text{hospital_Name}, \text{n_ID}, \text{d_ID}, \text{vac_Type}, \text{vac_Status}, \text{batch_No}, \text{slot}$

Transitive Dependencies

$\text{c_ID} \longrightarrow \text{C_Name}, \text{p_Name}, \text{c_address}, \text{office_No}$

$\text{vac_No} \longrightarrow \text{vac_Type}, \text{batch_No}$

$\text{batch_No} \longrightarrow \text{vac_Status}, \text{vac_Type}, \text{app_Date}$



SQL COMMAND (DDL)



CREATE DATABASE AND TABLE

```
mysql> create database MyVax;  
Query OK, 1 row affected (0.04 sec)
```

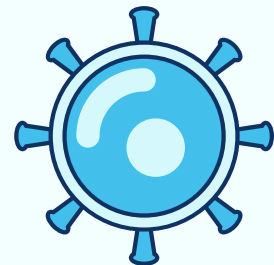
```
mysql> show databases;
```

Database
information_schema
mysql
myvax
performance_schema
sakila
sys
world

7 rows in set (0.00 sec)

```
mysql> use MyVax;  
Database changed
```

```
mysql> create table Patient  
-> (  
-> p_ID varchar(10) not null primary key,  
-> p_Name varchar(50),  
-> phone_No int,  
-> p_DOB date,  
-> p_Age int  
-> );  
Query OK, 0 rows affected (0.03 sec)
```

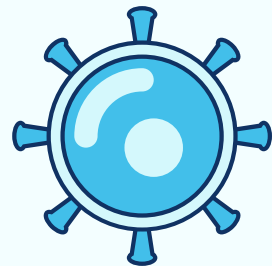


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INSERT TABLE

```
mysql> insert into patient values
-> ('103','Muhammad Hafiz Bin Husaini','0177260176','2002-1-26','20'),
-> ('104','Rusaini Ukhlimah Binti Roslan','01132874928','1997-4-17','25'),
-> ('105','Muhammad Nazirul Bin Azfar','01183974646','1995-1-17','27'),
-> ('106','Siti Rohana Binti Azman','01874342134','1991-4-23','31'),
-> ('107','Nur Aishah Binti Johari','01792367891','2001-3-28','21'),
-> ('108','Ahmad Fakrul Bin Mael','01325565178','1994-7-15','28'),
-> ('109','Natasha Binti Mohd Bakri','01151617730','1998-4-1','24'),
-> ('110','Saiful Ali Bin Saifuddin','01129277028','2000-7-5','22'),
-> ('111','Alia Batrisya Binti Kamaruddin','01121943796','1995-11-9','27'),
-> ('112','Mohamed Ismail Bin Rahim','01128933088','1993-3-4','29'),
-> ('113','Zuehyra Binti Ariff','01159658680','1990-6-27','32'),
-> ('114','Hasmah Bin Zulkifli','01898740902','2002-8-3','20'),
-> ('115','Ku Naim Bin Ku Wahab','01951661645','1997-12-9','25'),
-> ('116','Cheong Li Chiy','01990312838','1998-5-5','24'),
-> ('117','Pavitra A/P Manimaharan','01722252288','2000-1-31','22'),
-> ('118','Nurul Syahirah Binti Roslan','01693377521','1991-2-28','31'),
-> ('119','Nur Balqis Binti Zahri','01673411877','2001-9-11','21'),
-> ('120','Alia Syaheera Binti Johari','01460875176','1996-4-15','26'),
-> ('121','Thennish A/L Vertival','01340355584','1993-4-26','29'),
-> ('122','Esther Look Kher Shein','01221797383','2001-6-27','21')
-> ;
Query OK, 20 rows affected (0.01 sec)
Records: 20  Duplicates: 0  Warnings: 0
```

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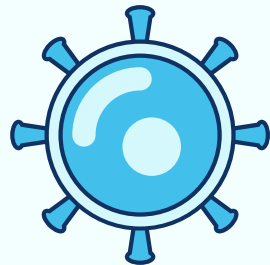
PRINT CONTENT (USING SELECT * FROM)

```
mysql> select * from patient;
```

p_ID	p_Name	phone_No	p_DOB	p_Age
103	Muhammad Hafiz Bin Husaini	177260176	2002-01-26	20
104	Rusaini Ukhlimah Binti Roslan	1132874928	1997-04-17	25
105	Muhammad Nazirul Bin Azfar	1183974646	1995-01-17	27
106	Siti Rohana Binti Azman	1874342134	1991-04-23	31
107	Nur Aishah Binti Johari	1792367891	2001-03-28	21
108	Ahmad Fakrul Bin Mae'l	1325565178	1994-07-15	28
109	Natasha Binti Mohd Bakri	1151617730	1998-04-01	24
110	Saiful Ali Bin Saifuddin	1129277028	2000-07-05	22
111	Alia Batrisya Binti Kamaruddin	1121943796	1995-11-09	27
112	Mohamed Ismail Bin Rahim	1128933088	1993-03-04	29
113	Zuehyra Binti Ariff	1159658680	1990-06-27	32
114	Hasmah Bin Zulkifli	1898740902	2002-08-03	20
115	Ku Naim Bin Ku Wahab	1951661645	1997-12-09	25
116	Cheong Li Chiy	1990312838	1998-05-05	24
117	Pavitra A/P Manimaharan	1722252288	2000-01-31	22
118	Nurul Syahirah Binti Roslan	1693377521	1991-02-28	31
119	Nur Balqis Binti Zahri	1673411877	2001-09-11	21
120	Alia Syaheera Binti Johari	1460875176	1996-04-15	26
121	Thennish A/L Vertival	1340355584	1993-04-26	29
122	Esther Look Kher Shein	1221797383	2001-06-27	21

```
20 rows in set (0.00 sec)
```

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SQL COMMAND (DDL) & (DML)



SELECT

mysql> SELECT p_ID, p_Name, p_DOB, p_Age from patient

-> order by p_Age desc

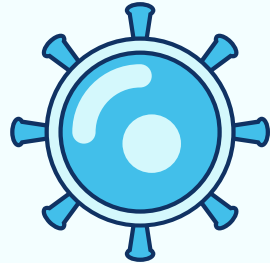
-> ;

```
mysql> SELECT p_ID, p_Name, p_DOB, p_Age from patient
-> order by p_Age desc
-> ;
```

p_ID	p_Name	p_DOB	p_Age
113	Zuehyra Binti Ariff	1990-06-27	32
106	Siti Rohana Binti Azman	1991-04-23	31
118	Nurul Syahirah Binti Roslan	1991-02-28	31
112	Mohamed Ismail Bin Rahim	1993-03-04	29
121	Thennish A/L Vertival	1993-04-26	29
108	Ahmad Fakrul Bin Mael	1994-07-15	28
105	Muhammad Nazirul Bin Azfar	1995-01-17	27
111	Alia Batrisya Binti Kamaruddin	1995-11-09	27
120	Alia Syaheera Binti Johari	1996-04-15	26
104	Rusaini Ukhlimah Binti Roslan	1997-04-17	25
115	Ku Naim Bin Ku Wahab	1997-12-09	25
109	Natasha Binti Mohd Bakri	1998-04-01	24
116	Cheong Li Chiy	1998-05-05	24
110	Saiful Ali Bin Saifuddin	2000-07-05	22
117	Pavitra A/P Manimaharan	2000-01-31	22
107	Nur Aishah Binti Johari	2001-03-28	21
119	Nur Balqis Binti Zahri	2001-09-11	21
122	Esther Look Kher Shein	2001-06-27	21
103	Muhammad Hafiz Bin Husaini	2002-01-26	20
114	Hasmah Bin Zulkifli	2002-08-03	20

20 rows in set (0.00 sec)

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BEFORE

AFTER

```

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```

UPDATE

```
mysql> UPDATE company
```

```
-> set c_Address = '30, CBD Perdana 3, Lingkaran Cyber Point Timur, Cyber
12, 63000 Cyberjaya, Selangor'
```

```
-> where c_ID = 'SBTECH'
```

```
-> ;
```

```
mysql> select * from company;
```

c_ID office_No	p_ID	c_Name	c_Address
SBTECH 327242535	103	Sandbox Tech SDN BHD	C2-2-8, Block C4, CBD Perdana 3, Lingkaran Cyber Point Timur, Cyber 12, 63000 Cyberjaya, Selangor
SBTECH 327242535	104	Sandbox Tech SDN BHD	C2-2-8, Block C4, CBD Perdana 3, Lingkaran Cyber Point Timur, Cyber 12, 63000 Cyberjaya, Selangor
99SM 333626863	105	99 Speedmart 1175 Pusat Bandar Latania	No 6 & 8, Jalan Nagasari E 36/E, Seksyen 36, 40470 Shah Alam, Selangor
99SM 333626863	106	99 Speedmart 1175 Pusat Bandar Latania	No 6 & 8, Jalan Nagasari E 36/E, Seksyen 36, 40470 Shah Alam, Selangor
99SM 333626863	107	99 Speedmart 1175 Pusat Bandar Latania	No 6 & 8, Jalan Nagasari E 36/E, Seksyen 36, 40470 Shah Alam, Selangor
TROP 390281995	108	Tropical Coffee Shop	20, Lor Seri Mahkota 25, Taman Seri Mahkota, 25150 Kuantan, Pahang
TROP 390281995	109	Tropical Coffee Shop	20, Lor Seri Mahkota 25, Taman Seri Mahkota, 25150 Kuantan, Pahang

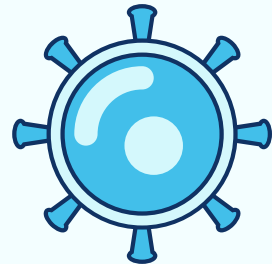
```
7 rows in set (0.00 sec)
```

```
mysql> UPDATE company
-> set c_Address = '30, CBD Perdana 3, Lingkaran Cyber Point Timur, Cyber 12, 63000 Cyberjaya, Selangor'
-> where c_ID = 'SBTECH'
-> ;
Query OK, 2 rows affected (0.01 sec)
Rows matched: 2 Changed: 2 Warnings: 0

mysql> select * from company;
```

c_ID	p_ID	c_Name	c_Address	office_No
SBTECH	103	Sandbox Tech SDN BHD	30, CBD Perdana 3, Lingkaran Cyber Point Timur, Cyber 12, 63000 Cyberjaya, Selangor	327242535
SBTECH	104	Sandbox Tech SDN BHD	30, CBD Perdana 3, Lingkaran Cyber Point Timur, Cyber 12, 63000 Cyberjaya, Selangor	327242535
99SM	105	99 Speedmart 1175 Pusat Bandar Latania	No 6 & 8, Jalan Nagasari E 36/E, Seksyen 36, 40470 Shah Alam, Selangor	333626863
99SM	106	99 Speedmart 1175 Pusat Bandar Latania	No 6 & 8, Jalan Nagasari E 36/E, Seksyen 36, 40470 Shah Alam, Selangor	333626863
99SM	107	99 Speedmart 1175 Pusat Bandar Latania	No 6 & 8, Jalan Nagasari E 36/E, Seksyen 36, 40470 Shah Alam, Selangor	333626863
TROP	108	Tropical Coffee Shop	20, Lor Seri Mahkota 25, Taman Seri Mahkota, 25150 Kuantan, Pahang	390281995
TROP	109	Tropical Coffee Shop	20, Lor Seri Mahkota 25, Taman Seri Mahkota, 25150 Kuantan, Pahang	390281995

```
7 rows in set (0.00 sec)
```




```

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```

DELETE

```

mysql> DELETE from nurse
      -> where n_ID = 'NS77881'
      -> ;

```

BEFORE

```
mysql> select * from nurse;
```

n_ID	ppv_ID	staff_Name	phone_No	hospital_Name
NS77091	ppvKangar	Mohd Arif	1115770740	Hospital Tuanku Fauziah
NS77156	ppvBBB	Alia Nabila	132163516	Hospital Bukit Mertajam
NS77187	ppvWPP	Jamal	199272016	Hospital Putrajaya
NS77629	ppvIM	Siti Nur Balqis	195674234	Hospital Tengku Ampuan Afzan
NS77671	ppvUM	Azirul Imran	193426753	Kuala Lumpur General Hospital
NS77881	ppvUM	Nik Nur Ain	1113757702	Kuala Lumpur General Hospital

6 rows in set (0.04 sec)

AFTER

```
mysql> select * from nurse;
```

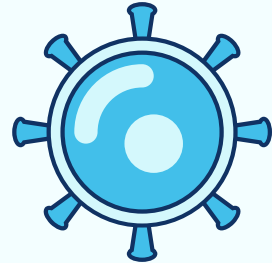
n_ID	ppv_ID	staff_Name	phone_No	hospital_Name
NS77091	ppvKangar	Mohd Arif	1115770740	Hospital Tuanku Fauziah
NS77156	ppvBBB	Alia Nabila	132163516	Hospital Bukit Mertajam
NS77187	ppvWPP	Jamal	199272016	Hospital Putrajaya
NS77629	ppvIM	Siti Nur Balqis	195674234	Hospital Tengku Ampuan Afzan
NS77671	ppvUM	Azirul Imran	193426753	Kuala Lumpur General Hospital

5 rows in set (0.00 sec)

```

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```



ALTER

mysql> ALTER TABLE patient

-> ADD COLUMN p_Address varchar(100) AFTER p_DOB;

BEFORE

```
mysql> ALTER TABLE patient;
Query OK, 0 rows affected (0.04 sec)

mysql> select * from patient;
```

p_ID	p_Name	phone_No	p_DOB	p_Age
103	Muhammad Hafiz Bin Husaini	177260176	2002-01-26	20
104	Rusaini Ukhlimah Binti Roslan	1132874928	1997-04-17	25
105	Muhammad Nazirul Bin Azfar	1183974646	1995-01-17	27
106	Siti Rohana Binti Azman	1874342134	1991-04-23	31
107	Nur Aishah Binti Johari	1792367891	2001-03-28	21
108	Ahmad Fakrul Bin Mael	1325565178	1994-07-15	28
109	Natasha Binti Mohd Bakri	1151617730	1998-04-01	24
110	Saiful Ali Bin Saifuddin	1129277028	2000-07-05	22
111	Alia Batrisya Binti Kamaruddin	1121943796	1995-11-09	27
112	Mohamed Ismail Bin Rahim	1128933088	1993-03-04	29
113	Zuehyra Binti Ariff	1159658680	1990-06-27	32
114	Hasmah Bin Zulkifli	1898740902	2002-08-03	20
115	Ku Naim Bin Ku Wahab	1951661645	1997-12-09	25
116	Cheong Li Chi	1990312838	1998-05-05	24
117	Pavitra A/P Manimaharan	1722252288	2000-01-31	22
118	Nurul Syahirah Binti Roslan	1693377521	1991-02-28	31
119	Nur Balqis Binti Zahri	1673411877	2001-09-11	21
120	Alia Syaheera Binti Johari	1460875176	1996-04-15	26
121	Thennish A/L Vertival	1340355584	1993-04-26	29
122	Esther Look Kher Shein	1221797383	2001-06-27	21

20 rows in set (0.00 sec)

AFTER

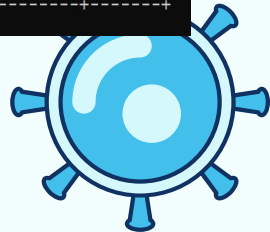
```
mysql> ALTER TABLE patient
-> ADD COLUMN p_Address varchar(100) AFTER p_DOB;
Query OK, 0 rows affected (0.20 sec)
Records: 0 Duplicates: 0 Warnings: 0

mysql> select * from patient;
```

p_ID	p_Name	phone_No	p_DOB	p_Address	p_Age
103	Muhammad Hafiz Bin Husaini	177260176	2002-01-26	NULL	20
104	Rusaini Ukhlimah Binti Roslan	1132874928	1997-04-17	NULL	25
105	Muhammad Nazirul Bin Azfar	1183974646	1995-01-17	NULL	27
106	Siti Rohana Binti Azman	1874342134	1991-04-23	NULL	31
107	Nur Aishah Binti Johari	1792367891	2001-03-28	NULL	21
108	Ahmad Fakrul Bin Mael	1325565178	1994-07-15	NULL	28
109	Natasha Binti Mohd Bakri	1151617730	1998-04-01	NULL	24
110	Saiful Ali Bin Saifuddin	1129277028	2000-07-05	NULL	22
111	Alia Batrisya Binti Kamaruddin	1121943796	1995-11-09	NULL	27
112	Mohamed Ismail Bin Rahim	1128933088	1993-03-04	NULL	29
113	Zuehyra Binti Ariff	1159658680	1990-06-27	NULL	32
114	Hasmah Bin Zulkifli	1898740902	2002-08-03	NULL	20
115	Ku Naim Bin Ku Wahab	1951661645	1997-12-09	NULL	25
116	Cheong Li Chi	1990312838	1998-05-05	NULL	24
117	Pavitra A/P Manimaharan	1722252288	2000-01-31	NULL	22
118	Nurul Syahirah Binti Roslan	1693377521	1991-02-28	NULL	31
119	Nur Balqis Binti Zahri	1673411877	2001-09-11	NULL	21
120	Alia Syaheera Binti Johari	1460875176	1996-04-15	NULL	26
121	Thennish A/L Vertival	1340355584	1993-04-26	NULL	29
122	Esther Look Kher Shein	1221797383	2001-06-27	NULL	21

20 rows in set (0.00 sec)

+++++



FUNCTION (MIN)

Find the youngest patient and display all the patient ID and name.

```
mysql> select p_ID, p_Name, p_Age
```

```
-> from patient
```

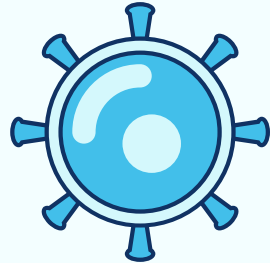
```
-> where p_Age = (select min(p_Age) from patient)
```

```
-> ;
```

```
mysql> select p_ID, p_Name, p_Age
-> from patient
-> where p_Age = (select min(p_Age) from patient)
-> ;
```

p_ID	p_Name	p_Age
103	Muhammad Hafiz Bin Husaini	20
114	Hasmah Bin Zulkifli	20

```
2 rows in set (0.00 sec)
```



COMPLEX SQL (JOIN TABLE)

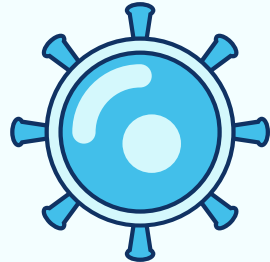
Retrieve patient ID, name, appointment date, and slot time where the appointment is in December only sorted by appointment date with ascending order.

```
mysql> select p.p_ID, p.p_Name, a.app_Date, a.slot
-> from patient p, appointment a
-> where p.p_ID=a.p_ID
-> and month(app_Date)=12
-> order by app_Date asc;
```

```
mysql> select p.p_ID, p.p_Name, a.app_Date, a.slot
-> from patient p, appointment a
-> where p.p_ID=a.p_ID
-> and month(app_Date)=12
-> order by app_Date asc;
```

p_ID	p_Name	app_Date	slot
108	Ahmad Fakrul Bin Mael	2021-12-04	08:30:00
109	Natasha Binti Mohd Bakri	2021-12-04	08:30:00
113	Zuehyra Binti Ariff	2021-12-04	09:00:00
119	Nur Balqis Binti Zahri	2021-12-05	08:30:00
110	Saiful Ali Bin Saifuddin	2021-12-06	11:00:00
115	Ku Naim Bin Ku Wahab	2021-12-06	11:40:00
116	Cheong Li Chiy	2021-12-06	11:40:00
120	Alia Syaheera Binti Johari	2021-12-06	11:40:00
103	Muhammad Hafiz Bin Husaini	2021-12-17	09:30:00
121	Thennish A/L Vertival	2021-12-17	09:30:00
122	Esther Look Kher Shein	2021-12-22	08:30:00

11 rows in set (0.00 sec)



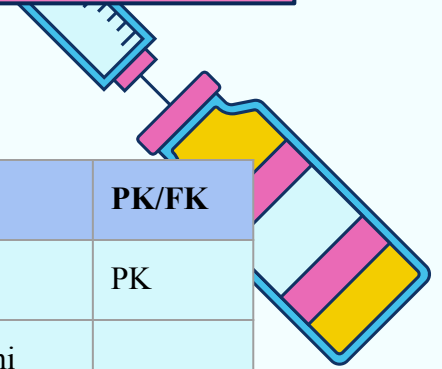
DATA DICTIONARY



ENTITY: PATIENT

+ +
+ +
+ +
+ +
+ +
+ +
+ +
+ +
+ +
+ +

ATTRIBUTE	DATA TYPE	DESCRIPTION	POSSIBLE VALUE	PK/FK
p_ID	varchar(10)	Define patient ID	103	PK
p_Name	varchar(50)	Define patient name	Muhammad Hafiz Bin Husaini	
phone_No	int	Define patient phone number	0177260176	
p_DOB	date	Define patient date of birth	2002-1-26	
p_Address	varchar(100)	Define patient address	A-G-20 CoPlace 2, Jalan Usahawan 1, 63000 Cyberjaya, Selangor.	
p_Age	int	Define patient age	20	

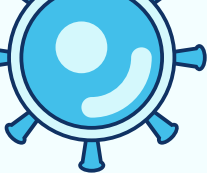


CONCLUSION



Nowadays vaccine is important to ensure our healthy in order to prevent Covid-19. This is because Covid-19 is killing people on a large scale. Even though being vaccinated not giving us 100% protection from Covid-19, but it helps to reduce the effect and transmission of this virus. In conclusion, this system can be extended to give another benefits for society in order to get their self vaccinated. So, our team hope, MyVax can acts as a big library for the user and provides all information regarding vaccines to their users.

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Thank You !

Presentation Video:

<https://www.youtube.com/watch?v=uj-rzUFoGwg>

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