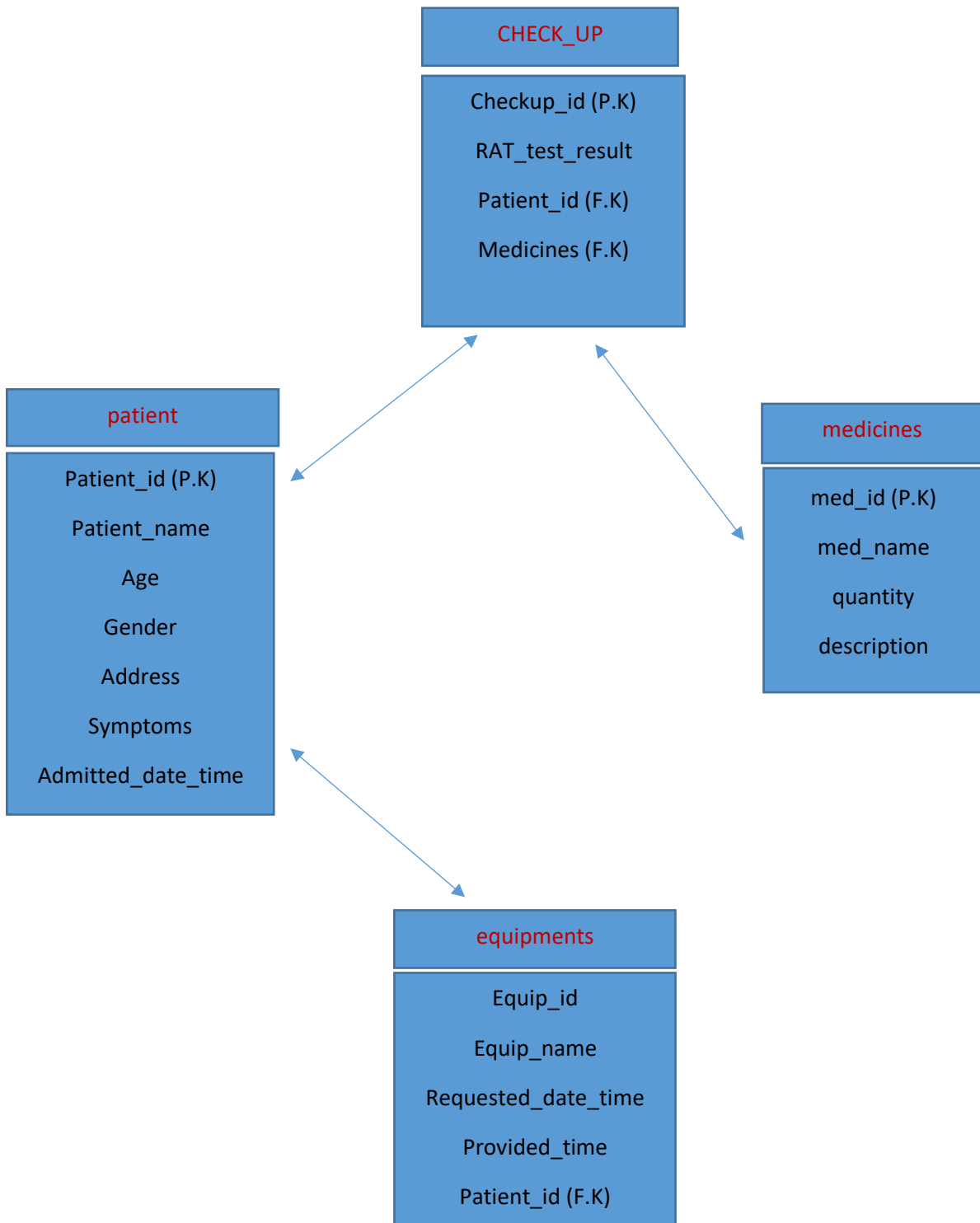# PROJECT FOR THE INFORMATION ABOUT COVID-19 PATIENT DETAILS IN CLINIC IN NAVI- MUMBAI LOCATION

DESCRIPTION: -

The project is based on the name of the virus CORONA VIRUS. Corona virus widely known as COVID-19. The table shows the variation of infected cases with the age group. The table shows the infected data according to the Gender. It shows in our location as MALE are more infected than the FEMALE. This data shows the total infected people in the MUMBAI location.

ER-DIAGRAM

CHECK_UP

Checkup_id (P.K)

RAT_test_result

Patient_id (F.K)

Medicines (F.K)

patient

Patient_id (P.K)

Patient_name

Age

Gender

Address

Symptoms

Admitted_date_time

medicines

med_id (P.K)

med_name

quantity

description

equipments

Equip_id

Equip_name

Requested_date_time

Provided_time

Patient_id (F.K)

PATIENT TABLE

desc patients;

```
MariaDB [covid_19]> desc patient;
+------------------+-------------+------+-----+---------+-------+
| Field            | Type        | Null | Key | Default | Extra |
+------------------+-------------+------+-----+---------+-------+
| Patient_id       | int(11)     | NO   | PRI | NULL    |       |
| Patient_Name     | varchar(40) | YES  |     | NULL    |       |
| Age              | int(11)     | YES  |     | NULL    |       |
| Gender           | varchar(20) | YES  |     | NULL    |       |
| Address          | varchar(40) | YES  |     | NULL    |       |
| Symptoms         | varchar(20) | YES  |     | NULL    |       |
| admited_date_time| datetime    | YES  |     | NULL    |       |
+------------------+-------------+------+-----+---------+-------+
7 rows in set (0.081 sec)
```

Select * from patient;

```
MariaDB [covid_19]> select *from patient;
+------------+-------------------+------+--------+-----------+---------------------+---------------------+
| Patient_id | Patient_Name      | Age  | Gender | Address   | Symptoms            | admited_date_time   |
+------------+-------------------+------+--------+-----------+---------------------+---------------------+
|        101 | Rama Yadav        |   35 | Female | Vashi     | difficulty breathing| 2020-05-15 14:05:20 |
|        102 | Sam Chopra        |   85 | Male   | Thane     | Sore throat         | 2020-06-20 15:10:28 |
|        103 | Danish Mehta      |   25 | Male   | Rabale    | Chest pain          | 2020-06-25 13:18:28 |
|        104 | Yash Chopra       |   48 | Male   | Mulund    | Runny nose          | 2020-07-10 14:26:30 |
|        105 | Mamta Ubale       |   76 | Female | Turbhe    | Diarrhea            | 2020-07-25 15:20:48 |
|        106 | Alex Abadi        |   29 | Male   | Andheri   | loss of taste or sme| 2020-08-12 16:31:46 |
|        107 | Bobby Smith       |   86 | Male   | kandivali | Diarrhea            | 2020-09-02 17:28:56 |
|        108 | Rickey Aleman     |   25 | Male   | khar      | Muscle aches        | 2020-09-15 18:25:46 |
|        109 | Mac Alexan        |   59 | Male   | Borivali  | chest pain          | 2020-09-25 19:12:19 |
|        110 | William Bakshi    |   78 | Male   | colaba    | difficulty breathing| 2020-09-29 20:30:12 |
|        111 | Amrita Anthony    |   22 | Female | trombay   | loss of taste or sme| 2020-10-06 21:45:15 |
|        112 | Mason Arya        |   90 | Male   | shahad    | Fever               | 2020-10-16 20:16:45 |
|        113 | Bhavini Banerjee  |   71 | Female | Boisar    | Fever               | 2020-11-06 22:28:54 |
|        114 | Daniel Basu       |   55 | Male   | kandivali | difficulty breathing| 2020-11-06 22:28:54 |
|        115 | Samuel Dalal      |   45 | Male   | Thane     | difficulty breathing| 2020-11-18 23:15:26 |
|        116 | Charita Chadha    |   52 | Female | Rabale    | Muscle aches        | 2020-12-06 22:28:54 |
|        117 | Hudson Chakrabarti|   41 | Male   | shahad    | Muscle aches        | 2020-12-18 18:48:25 |
|        118 | Divya Datta       |   76 | Female | Vashi     | Fever               | 2020-12-25 17:10:26 |
|        119 |  Anthony Lal      |   76 | Male   | Thane     | Fever               | 2021-01-20 19:14:35 |
|        120 | Anthony Jain      |   86 | Male   | colaba    | Muscle aches        | 2021-01-26 15:38:26 |
|        121 | Eshana Ghosh      |   90 | Female | colaba    | Fever               | 2021-03-12 19:12:50 |
|        122 | Ryan Gandhi       |   80 | Male   | shahad    | chest pain          | 2021-04-05 21:23:21 |
|        123 | Falguni Chopra    |   70 | Female | kandivali | Soar throat         | 2021-06-05 16:20:16 |
|        124 | Hunter Dixit      |   70 | Male   | kandivali | Soar throat         | 2021-09-15 13:13:16 |
|        125 | Hema Dixit        |   65 | Female | Thane     | Fever               | 2021-11-28 16:13:29 |
+------------+-------------------+------+--------+-----------+---------------------+---------------------+
25 rows in set (0.001 sec)
```

EQUIPMENT TABLE

desc equipment's;

```
MariaDB [covid_19]> desc equipments;
+--------------------+-------------+------+-----+---------+-------+
| Field              | Type        | Null | Key | Default | Extra |
+--------------------+-------------+------+-----+---------+-------+
| equip_id           | int(11)     | NO   |     | NULL    |       |
| equip_name         | varchar(40) | YES  |     | NULL    |       |
| requested_date_time| datetime    | YES  |     | NULL    |       |
| provided_time      | time        | YES  |     | NULL    |       |
| patient_id         | int(11)     | YES  | MUL | NULL    |       |
+--------------------+-------------+------+-----+---------+-------+
5 rows in set (0.009 sec)
```

Select * from equipments;

```
MariaDB [covid_19]> select* from equipments;
+----------+------------+---------------------+---------------+------------+
| equip_id | equip_name | requested_date_time | provided_time | patient_id |
+----------+------------+---------------------+---------------+------------+
|       11 | sanitizer  | 2020-05-15 14:05:20 | 14:15:12      |        101 |
|       12 | mask       | 2020-06-20 15:10:28 | 15:20:12      |        102 |
|       13 | gloves     | 2020-06-25 13:18:28 | 13:30:12      |        103 |
|       14 | bed        | 2020-07-10 14:26:30 | 16:20:12      |        104 |
|       15 | mask       | 2020-07-25 15:20:48 | 15:35:12      |        105 |
|       16 | ventilator | 2020-08-12 16:31:46 | 17:01:12      |        106 |
|       17 | mask       | 2020-09-02 17:28:56 | 17:45:12      |        107 |
|       18 | sanitizer  | 2020-09-15 18:25:46 | 18:45:12      |        108 |
|       19 | gloves     | 2020-09-25 19:12:19 | 19:30:12      |        109 |
|       20 | ventilator | 2020-09-29 20:30:12 | 20:40:12      |        110 |
|       21 | ventilator | 2020-10-06 21:45:15 | 21:55:12      |        111 |
|       22 | mask       | 2020-10-16 20:16:45 | 20:25:12      |        112 |
|       23 | sanitizer  | 2020-11-06 22:28:54 | 22:40:12      |        113 |
+----------+------------+---------------------+---------------+------------+
13 rows in set (0.000 sec)
```

MEDICINES TABLE

desc medicines;

```
MariaDB [covid_19]> desc medicines;
+-------------+-------------+------+-----+---------+-------+
| Field       | Type        | Null | Key | Default | Extra |
+-------------+-------------+------+-----+---------+-------+
| med_id      | int(11)     | NO   | PRI | NULL    |       |
| med_name    | varchar(40) | YES  |     | NULL    |       |
| quantity    | varchar(40) | YES  |     | NULL    |       |
| description | varchar(20) | YES  |     | NULL    |       |
+-------------+-------------+------+-----+---------+-------+
4 rows in set (0.069 sec)
```

Select * from medicines;

```
MariaDB [covid_19]> select* from medicines;
+--------+-------------------------------------------+----------------+----------------------+
| med_id | med_name                                  | quantity       | description          |
+--------+-------------------------------------------+----------------+----------------------+
|      1 | Tab_Doxycycline                           | 100mg          | 7_days               |
|      2 | Tab_VitaminC1,Tab_Doxycycline,Tab_Azithr  | 100mg          | 7_days               |
|      3 | Tab_VitaminC1,Tab_Doxycycline             | 1gm,100mg      | 15_days,7_days       |
|      4 | Tab_VitaminC1,Tab_Doxycycline,Cough_syru  | 1gm,100mg,5ml  | 15_days,7_days,3_day |
|      5 | Tab_VitaminC1,Tab_Doxycycline             | 1gm,100mg      | 15_days,7_days       |
|      6 | Remedesivir                               | 100mg          | 10_days              |
|      7 | Tab_VitaminC1,Tab_Doxycycline             | 1gm,100mg      | 15_days,7_days       |
|      8 | Tab_VitaminC1,Tab_Doxycycline             | 1gm,100mg      | 15_days,7_days       |
|      9 | Tab_VitaminC1,Tab_Doxycycline             | 1gm,100mg      | 15_days,7_days       |
|     10 | Remedesivir                               | 100mg          | 10_days              |
|     11 | Remedesivir                               | 100mg          | 10_days              |
|     12 | Tab_VitaminC1,Tab_Doxycycline,Tab_Parace  | 1gm,100mg,500mg | 15_days,7_days,4_day |
|     13 | Tab_VitaminC1,Tab_Doxycycline,Tab_Parace  | 1gm,100mg,500mg | 15_days,7_days,4_day |
+--------+-------------------------------------------+----------------+----------------------+
13 rows in set (0.129 sec)
```

CHECK-UP TABLE

desc check_up1;

```
MariaDB [covid_19]> desc check_up1;
+-----------------+-------------+------+-----+---------+-------+
| Field           | Type        | Null | Key | Default | Extra |
+-----------------+-------------+------+-----+---------+-------+
| checkup_id      | int(11)     | NO   | PRI | NULL    |       |
| RAT_test_result | varchar(30) | YES  |     | NULL    |       |
| patient_id      | int(11)     | YES  | MUL | NULL    |       |
| med_id          | int(11)     | YES  | MUL | NULL    |       |
+-----------------+-------------+------+-----+---------+-------+
4 rows in set (0.014 sec)
```

Select * from check_up1;

```
MariaDB [covid_19]> select* from check_up1;
+------------+-----------------+------------+--------+
| checkup_id | RAT_test_result | patient_id | med_id |
+------------+-----------------+------------+--------+
|       1001 | Mild            |        101 |      1 |
|       1002 | Moderate        |        102 |      2 |
|       1003 | Moderate        |        103 |      3 |
|       1004 | Mild            |        104 |      4 |
|       1005 | Moderate        |        105 |      5 |
|       1006 | Sevier          |        106 |      6 |
|       1007 | Mild            |        107 |      7 |
|       1008 | Mild            |        108 |      8 |
|       1009 | Moderate        |        109 |      9 |
|       1010 | Sevier          |        110 |     10 |
|       1011 | Sevier          |        111 |     11 |
|       1012 | Mild            |        112 |     12 |
|       1013 | Moderate        |        113 |     13 |
+------------+-----------------+------------+--------+
13 rows in set (0.001 sec)
```

USE JOINS

RIGHT JOIN

SQL QUERY: -

select check_up1.RAT_test_result, check_up1.patient_id from check_up1 right join medicines ON check_up1.med_id=medicines.med_id;

```
MariaDB [covid_19]> select check_up1.RAT_test_result,check_up1.patient_id from check_up1 right join medicines ON check_up1.med_id=medicines.med_id;
+-----------------+------------+
| RAT_test_result | patient_id |
+-----------------+------------+
| Mild            |        101 |
| Moderate        |        102 |
| Moderate        |        103 |
| Mild            |        104 |
| Moderate        |        105 |
| Sevier          |        106 |
| Mild            |        107 |
| Mild            |        108 |
| Moderate        |        109 |
| Sevier          |        110 |
| Sevier          |        111 |
| Mild            |        112 |
| Moderate        |        113 |
+-----------------+------------+
13 rows in set (0.054 sec)
```

INNER JOIN:-

SQL QUERY

select patient.patient_name,patient.Age from patient inner join equipments
on patient.admited_date_time=equipments.requested_date_time;

```
MariaDB [covid_19]> select patient.patient_name,patient.Age from patient inner join equipments on patient.admited_date_time=equipments.requested_date_time;
+------------------+------+
| patient_name     | Age  |
+------------------+------+
| Rama Yadav       |   35 |
| Sam Chopra       |   85 |
| Danish Mehta     |   25 |
| Yash Chopra      |   48 |
| Mamta Ubale      |   76 |
| Alex Abadi       |   29 |
| Bobby Smith      |   86 |
| Rickey Aleman    |   25 |
| Mac Alexan       |   59 |
| William Bakshi   |   78 |
| Amrita Anthony   |   22 |
| Mason Arya       |   90 |
| Bhavini Banerjee |   71 |
| Daniel Basu      |   55 |
+------------------+------+
14 rows in set (0.001 sec)
```

LEFT JOIN:-

SQL QUERY

 select patient.patient_name,patient.Gender from patient left join equipments ON
patient.admited_date_time=equipments.requested_date_time;

```
MariaDB [covid_19]> select patient.patient_name,patient.Gender from patient left join equipments ON patient.admited_date_time=equipments.requested_date_time;
+--------------------+--------+
| patient_name       | Gender |
+--------------------+--------+
| Rama Yadav         | Female |
| Sam Chopra         | Male   |
| Danish Mehta       | Male   |
| Yash Chopra        | Male   |
| Mamta Ubale        | Female |
| Alex Abadi         | Male   |
| Bobby Smith        | Male   |
| Rickey Aleman      | Male   |
| Mac Alexan         | Male   |
| William Bakshi     | Male   |
| Amrita Anthony     | Female |
| Mason Arya         | Male   |
| Bhavini Banerjee   | Female |
| Daniel Basu        | Male   |
| Samuel Dalal       | Male   |
| Charita Chadha     | Female |
| Hudson Chakrabarti | Male   |
| Divya Datta        | Female |
|  Anthony Lal       | Male   |
| Anthony Jain       | Male   |
| Eshana Ghosh       | Female |
| Ryan Gandhi        | Male   |
| Falguni Chopra     | Female |
| Hunter Dixit       | Male   |
| Hema Dixit         | Female |
+--------------------+--------+
25 rows in set (0.001 sec)
```

SUB-QUERY

SQL QUERY:

select RAT_test_result from check_up1 where patient_id=(select patient_id from patient where patient_name='Alex Abadi');

```
MariaDB [covid_19]> select RAT_test_result from check_up1 where patient_id=(select patient_id from patient where patient_name='Alex Abadi');
+-----------------+
| RAT_test_result |
+-----------------+
| Sevier          |
+-----------------+
1 row in set (0.085 sec)
```

SQL QUERY:

select count(patient_id),age from patient group by age
having count(patient_id)>2;

```
MariaDB [covid_19]> select count(patient_id),age from patient group by age having count(patient_id)>2;
+-------------------+------+
| count(patient_id) | age  |
+-------------------+------+
|                 3 |   76 |
+-------------------+------+
1 row in set (0.002 sec)
```

SQL QUERY:

select * from patient where age in (select age
from patient where address='kandivali');

```
MariaDB [covid_19]> select * from patient where age in (select age from patient where address='kandivali');
+------------+----------------+------+--------+-----------+---------------------+---------------------+
| Patient_id | Patient_Name   | Age  | Gender | Address   | Symptoms            | admited_date_time   |
+------------+----------------+------+--------+-----------+---------------------+---------------------+
|        107 | Bobby Smith    |   86 | Male   | kandivali | Diarrhea            | 2020-09-02 17:28:56 |
|        114 | Daniel Basu    |   55 | Male   | kandivali | difficulty breathing| 2020-11-06 22:28:54 |
|        120 | Anthony Jain   |   86 | Male   | colaba    | Muscle aches        | 2021-01-26 15:38:26 |
|        123 | Falguni Chopra |   70 | Female | kandivali | Soar throat         | 2021-06-05 16:20:16 |
|        124 | Hunter Dixit   |   70 | Male   | kandivali | Soar throat         | 2021-09-15 13:13:16 |
+------------+----------------+------+--------+-----------+---------------------+---------------------+
5 rows in set (0.001 sec)
```

VIEW TABLE:

SQL QUERY

create view patient_details as select
patient_id,patient_name,Age,Gender from patient where age>50;

```
MariaDB [covid_19]> create view patient_details as select patient_id,patient_name,Age,Gender from patient where age>50;
Query OK, 0 rows affected (0.098 sec)

MariaDB [covid_19]> select *from patient_details;
+------------+------------------+------+--------+
| patient_id | patient_name     | Age  | Gender |
+------------+------------------+------+--------+
|        102 | Sam Chopra       |   85 | Male   |
|        105 | Mamta Ubale      |   76 | Female |
|        107 | Bobby Smith      |   86 | Male   |
|        109 | Mac Alexan       |   59 | Male   |
|        110 | William Bakshi   |   78 | Male   |
|        112 | Mason Arya       |   90 | Male   |
|        113 | Bhavini Banerjee |   71 | Female |
|        114 | Daniel Basu      |   55 | Male   |
|        116 | Charita Chadha   |   52 | Female |
|        118 | Divya Datta      |   76 | Female |
|        119 |  Anthony Lal     |   76 | Male   |
|        120 | Anthony Jain     |   86 | Male   |
|        121 | Eshana Ghosh     |   90 | Female |
|        122 | Ryan Gandhi      |   80 | Male   |
|        123 | Falguni Chopra   |   70 | Female |
|        124 | Hunter Dixit     |   70 | Male   |
|        125 | Hema Dixit       |   65 | Female |
+------------+------------------+------+--------+
17 rows in set (0.003 sec)
```

SQL QUERY:

create view check_up1_details as select checkup_id,RAT_test_result
from check_up1 where RAT_test_result='Mild';

```
MariaDB [covid_19]> create view check_up1_details as select checkup_id,RAT_test_result from check_up1 where RAT_test_result='Mild';
Query OK, 0 rows affected (0.070 sec)

MariaDB [covid_19]> select * from check_up1_details;
+------------+-----------------+
| checkup_id | RAT_test_result |
+------------+-----------------+
|       1001 | Mild            |
|       1004 | Mild            |
|       1007 | Mild            |
|       1008 | Mild            |
|       1012 | Mild            |
+------------+-----------------+
5 rows in set (0.002 sec)
```

THANK YOU