#### **VIEWS:**

1. Recipient Details: All details of recipients.

	RECIPIENT_ID	REGISTRATION_ID   FIRST_NAME		DATE_OF_BIRTH	CONTACT_NUMBER	STREET_ADDRESS	<b>⊕</b> CITY	<b>♦ ZIPCODE</b>	<b>⊕</b> GENDER	EMAIL_ID	ψŧ
1	101	50011 ALLEN	SMITH	23-0CT-97	6172344342 2	34 HUNTINGTON AVE	BOSTON	02115	MALE	allen.smith@gmail.com	08-
2	101	50011 ALLEN	SMITH	23-0CT-97	6172344342 2	34 HUNTINGTON AVE	BOSTON	02115	MALE	allen.smith@gmail.com	08-
3	102	50012 AVA	CHEN	07-MAR-90	8769971678 3	760 ARCHER ROAD	MATTAPAN	02124	FEMALE	chenava@gmail.com	(nu
4	102	50012 AVA	CHEN	07-MAR-90	8769971678 3	760 ARCHER ROAD	MATTAPAN	02124	FEMALE	chenava@gmail.com	(nı
5	103	50014 JAMES	MCMILLAN	12-JUL-70	4123478001 1	667 K STREET	WASHINGTON DC	20006	OTHER	mcmillianjay@gmail.com	28-
6	103	50014 JAMES	MCMILLAN	12-JUL-70	4123478001 1	667 K STREET	WASHINGTON DC	20006	OTHER	mcmillianjay@gmail.com	28-
7	104	50015 RAKSHA	SHETTY	30-0CT-95	8577990915 6	82 PARKER SREET	BOSTON	02120	FEMALE	shetty.raks@gmail.com	20-
8	104	50015 RAKSHA	SHETTY	30-0CT-95	8577990915 6	82 PARKER SREET	BOSTON	02120	FEMALE	shetty.raks@gmail.com	20-
9	105	50013 ELLA	GLENN	20-MAR-00	4132344890 1	255 RARITAN ROAD	CLARK	07066	OTHER	glenn.elle@gmail.com	(nı
10	105	50013 ELLA	GLENN	20-MAR-00	4132344890 1	255 RARITAN ROAD	CLARK	07066	OTHER	glenn.elle@gmail.com	(nu
11	106	50016 RAHMAN	AHMAD	30-N0V-60	3134500761 1	515 CLAY STREET	LOS ANGELES	94612	MALE	rahman.ahmad@gmail.com	(nı
12	106	50016 RAHMAN	AHMAD	30-N0V-60	3134500761 1	515 CLAY STREET	LOS ANGELES	94612	MALE	rahman.ahmad@gmail.com	(nı
13	107	50018 GRAYSON	HARPER	14-AUG-90	6167890915 6	6 SPARKS STREET	CAMBRIDGE	02163	MALE	harpergrayson@gmail.com	05-
14	107	50018 GRAYSON	HARPER	14-AUG-90	6167890915 6	6 SPARKS STREET	CAMBRIDGE	02163	MALE	harpergrayson@gmail.com	05-
15	108	50017 SANIA	MEADOWS	06-APR-98	7173124098 3	014 WEST COLUMBUS AVE	CHICAGO	60652	OTHER	sunshine.meadows@gmail.com	23-
16	108	50017 SANIA	MEADOWS	06-APR-98	7173124098 3	014 WEST COLUMBUS AVE	CHICAGO	60652	OTHER	sunshine.meadows@gmail.com	23-
17	109	50020 LILY	CALLOWAY	28-MAY-96	8179708654 3	100 NEWPORT AVE	NEWPORT BEACH	92660	FEMALE	calloway.lilly@gmail.com	20-
18	109	50020 LILY	CALLOWAY	28-MAY-96	8179708654 3	100 NEWPORT AVE	NEWPORT BEACH	92660	FEMALE	calloway.lilly@gmail.com	20-
19	110	50019 STELLA	ALONSO	16-FEB-97	9180675421 2	35TH SOUTHEAST STREET	KENT	98031	FEMALE	alonso.stella@gmailcom	(nu
20	110	50019 STELLA	ALONSO	16-FEB-97	9180675421 2	35TH SOUTHEAST STREET	KENT	98031	FEMALE	alonso.stella@gmailcom	(nu

```
CREATE OR REPLACE VIEW RECIPIENT DETAILS AS
SELECT RP.RECIPIENT ID, RG.REGISTRATION ID, RP.FIRST NAME,
RP.LAST NAME,
RP.DATE OF BIRTH, RP.CONTACT NUMBER, RP.STREET ADDRESS,
RP.CITY, RP.ZIPCODE, RP.GENDER,
RG.EMAIL ID, RG.LAST VACCINATION DATE, VACCINE RECORD ID, VR.VAC
CINE RECORD DATE, VR. REMARKS,
HP.HOSPITAL ID, HP.HOSPITAL NAME, MW.MEDICAL WORKER ID, VD.VACCI
NE ID, VD. VACCINE NAME
FROM RECIPIENT RP
JOIN REGISTRATION RG ON
RG.RECIPIENT ID = RP.RECIPIENT ID
JOIN VACCINE RECORD VR ON
VR.REGISTRATION ID = RG.REGISTRATION ID
JOIN MEDICAL WORKER MW ON
MW.MEDICAL WORKER ID = VR.MEDICAL WORKER ID
JOIN HOSPITAL HP ON
HP.HOSPITAL ID = MW.HOSPITAL ID
JOIN VACCINE DETAILS VD ON
VD. VACCINE ID = VR. VACCINE ID;
```

2. Hospital wise total vaccine administered: Total number of vaccines administered by Hospital

	♦ HOSPITAL_ID ♦ HOSPITAL_NAME	TOTAL_VACCINE_ADMINISTERED
1	1101 MASS BRIGHAM GENERAL HOSPITAL	. 8
2	1103 SOUTHERN CALIFORNIA HOSPITAL	4
3	1102 ILLINOIS GENERAL HOSPITAL	4
4	1104 GWU HOSPITAL	4

```
CREATE OR REPLACE VIEW HOSPITAL_WISE_TOTAL_VACCINE_ADMINISTERED AS

SELECT H.HOSPITAL_ID, H.HOSPITAL_NAME, COUNT (VR.VACCINE_RECORD_ID)
AS TOTAL_VACCINE_ADMINISTERED

FROM HOSPITAL H
JOIN MEDICAL_WORKER MW ON
MW.HOSPITAL_ID = H.HOSPITAL_ID
JOIN VACCINE_RECORD VR ON
VR.MEDICAL_WORKER_ID = MW.MEDICAL_WORKER_ID

GROUP BY H.HOSPITAL_ID, H.HOSPITAL_NAME;
```

3. Medical\_Worker\_wise\_total\_vaccine\_administered : Total number of vaccines administered by Medical Worker

			↑ TOTAL_VACCINE_ADMINISTERED
1	12011	JOHN	3
2	12012	FIONA	4
3	12018	JUAN	2
4	12015	ANA	2
5	12019	ANIKA	2
6	12013	DAMIEN	2
7	12014	LAURA	3
8	12017	BRIANA	2

```
CREATE OR REPLACE VIEW

MEDICAL_WORKER_WISE_TOTAL_VACCINE_ADMINISTERED AS

SELECT MW.MEDICAL_WORKER_ID,

MW.FIRST_NAME,COUNT(VR.VACCINE_RECORD_ID) AS

TOTAL_VACCINE_ADMINISTERED

FROM HOSPITAL H

JOIN MEDICAL_WORKER MW ON

MW.HOSPITAL_ID = H.HOSPITAL_ID

JOIN VACCINE_RECORD VR ON

VR.MEDICAL_WORKER_ID = MW.MEDICAL_WORKER_ID

GROUP BY MW.MEDICAL_WORKER_ID,MW.FIRST_NAME;
```

4. Region wise total vaccine administered: Total number of vaccines administered by Region

	<b>∜</b> CITY	↑ TOTAL_VACCINE_ADMINISTERED
1	WASHINGTON DC	4
2	BOSTON	8
3	LOS ANGELES	4
4	CHICAGO	4

CREATE OR REPLACE VIEW REGION\_WISE\_TOTAL\_VACCINE\_ADMINISTERED AS

SELECT H.CITY, COUNT(VR.VACCINE\_RECORD\_ID) AS

TOTAL\_VACCINE\_ADMINISTERED

FROM HOSPITAL H

JOIN MEDICAL\_WORKER MW ON

MW.HOSPITAL\_ID = H.HOSPITAL\_ID

JOIN VACCINE\_RECORD VR ON

VR.MEDICAL\_WORKER\_ID = MW.MEDICAL\_WORKER\_ID

GROUP BY H.CITY;

5. Week wise total vaccine administered: Total Number of vaccines administered weekly.

	<b>♦ WEEK</b>	♦ TOTAL_VACCINE_ADMINISTERED
1	12/20	1
2	48/20	1
3	23/21	1
4	38/21	1
5	45/21	1
6	46/21	1
7	47/21	1
8	01/22	1
9	01/22	1
10	05/22	1
11	09/22	1
12	12/22	1
13	12/22	1
14	15/22	1

CREATE OR REPLACE VIEW WEEK\_WISE\_TOTAL\_VACCINE\_ADMINISTERED AS SELECT

to\_char(to\_date(VR.VACCINE\_RECORD\_DATE,'DD/MON/YYYY'),'WW/YY')AS WEEK,
COUNT(vr.vaccine record id) AS TOTAL VACCINE ADMINISTERED

FROM HOSPITAL H

JOIN MEDICAL WORKER MW ON

MW.HOSPITAL ID = H.HOSPITAL ID

JOIN VACCINE RECORD VR ON

VR.MEDICAL WORKER ID = MW.MEDICAL\_WORKER\_ID

JOIN VACCINE DETAILS VD ON

 $VD.VACCINE_ID = VR.VACCINE_ID$ 

GROUP BY VR. VACCINE RECORD DATE

ORDER BY VR. VACCINE RECORD DATE ASC;

6. Vaccine Type wise administered: Total Number of Vaccines administered by Vaccine Type

	∜ VACCINE_NAME	
1	JJ	4
2	PFIZER	4
3	NOVAVAX	4
4	MODERNA	8

CREATE OR REPLACE VIEW VACCINE\_TYPE\_WISE\_ADMINISTERED AS
SELECT VD.VACCINE\_NAME, COUNT(VR.VACCINE\_RECORD\_ID) AS
TOTAL\_VACCINE\_TYPE

FROM HOSPITAL H

JOIN MEDICAL\_WORKER MW ON
MW.HOSPITAL\_ID = H.HOSPITAL\_ID

JOIN VACCINE\_RECORD VR ON
VR.MEDICAL\_WORKER\_ID = MW.MEDICAL\_WORKER\_ID

JOIN VACCINE\_DETAILS VD ON
VD.VACCINE\_ID = VR.VACCINE\_ID

7. Total\_billing\_by\_hospital: Total Billed amount by Hospital

GROUP BY VACCINE NAME;

	♦ HOSPITAL_ID		<b>∜ TOTAL_BILLING</b>
1	1101	MASS BRIGHAM GENERAL HOSPITAL	150
2	1103	SOUTHERN CALIFORNIA HOSPITAL	70
3	1102	ILLINOIS GENERAL HOSPITAL	70
4	1104	GWU HOSPITAL	80

```
CREATE OR REPLACE VIEW TOTAL_BILLING_BY_HOSPITAL AS
SELECT H.HOSPITAL_ID, H.HOSPITAL_NAME, SUM (RG.PAYMENT_AMOUNT)
AS TOTAL_BILLING

FROM HOSPITAL H

JOIN MEDICAL_WORKER MW ON
MW.HOSPITAL_ID = H.HOSPITAL_ID

JOIN VACCINE_RECORD VR ON
VR.MEDICAL_WORKER_ID = MW.MEDICAL_WORKER_ID

JOIN REGISTRATION RG ON
RG.REGISTRATION_ID = VR.REGISTRATION_ID

GROUP BY H.HOSPITAL_ID, H.HOSPITAL_NAME;
```

8. Trailing Day wise total vaccine administered:

Day wise total vaccines administered across all hospitals and regions.

		♦ TOTAL_VACCINE_ADMINISTERED
1	20-MAR-20	1
2	29-N0V-20	1
3	08-JUN-21	1
4	20-SEP-21	1
5	10-N0V-21	1
6	17-N0V-21	1
7	20-N0V-21	1
8	05-JAN-22	1
9	07-JAN-22	1
10	02-FEB-22	1
11	28-FEB-22	1
12	21-MAR-22	1
13	22-MAR-22	1
14	12-APR-22	1
15	23-MAY-22	1
16	20-JUL-22	1
17	20-AUG-22	1
18	21-SEP-22	1
19	30-SEP-22	1
20	17-0CT-22	1

```
CREATE OR REPLACE VIEW

TRAILING_DAY_WISE_TOTAL_VACCINE_ADMINISTERED AS

SELECT VACCINE_RECORD_DATE, COUNT(VACCINE_RECORD_ID) AS

TOTAL_VACCINE_ADMINISTERED

FROM VACCINE_RECORD

GROUP BY VACCINE_RECORD_DATE

ORDER BY VACCINE RECORD_DATE ASC;
```

9. Vaccine\_Efficacy: Effectiveness of each vaccine(Based on side effects provided by Medical Worker's remarks).

		<b>♦ EFFICACY</b>
1	JJ	50%
2	PFIZER	75%
3	NOVAVAX	75%
4	MODERNA	75%

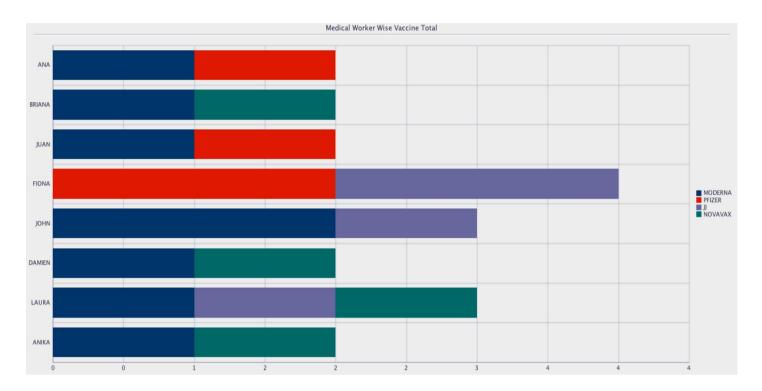
```
CREATE OR REPLACE VIEW VACCINE_EFFICACY AS
SELECT VD.VACCINE_NAME,
concat((SUM(CASE WHEN VR.REMARKS = 'NULL' THEN 1 ELSE 0
END)/COUNT(VR.REMARKS))*100, '%') AS EFFICACY

FROM VACCINE_RECORD VR
JOIN VACCINE_DETAILS VD ON
VD.VACCINE_ID = VR.VACCINE_ID

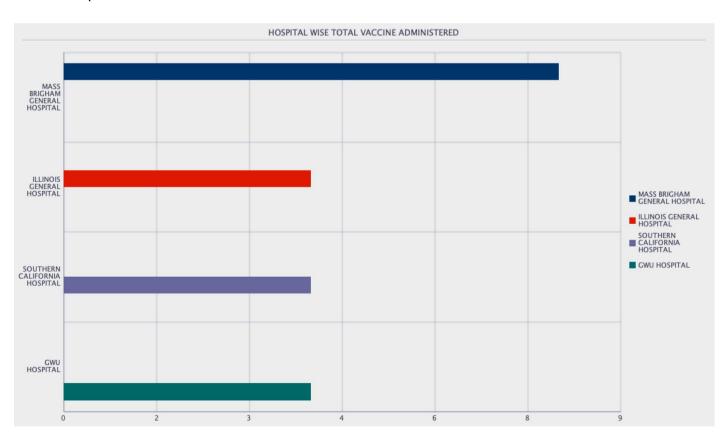
GROUP BY VD.VACCINE_NAME;
```

# Reports:

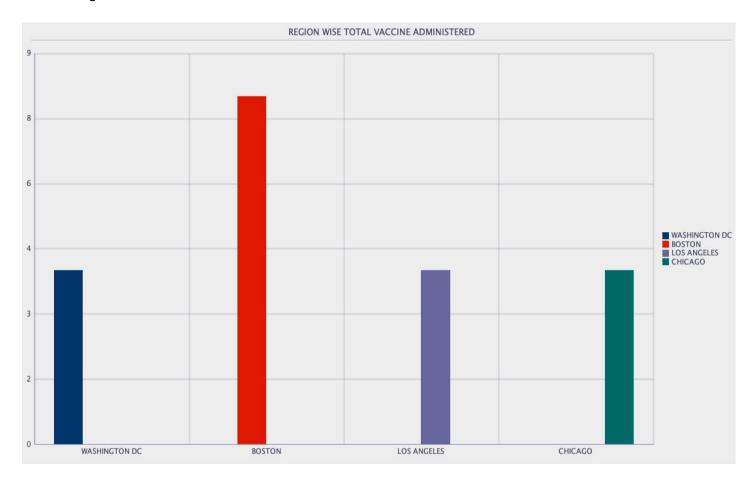
## 1. Medical Worker Wise Vaccine Total Vaccine Administered



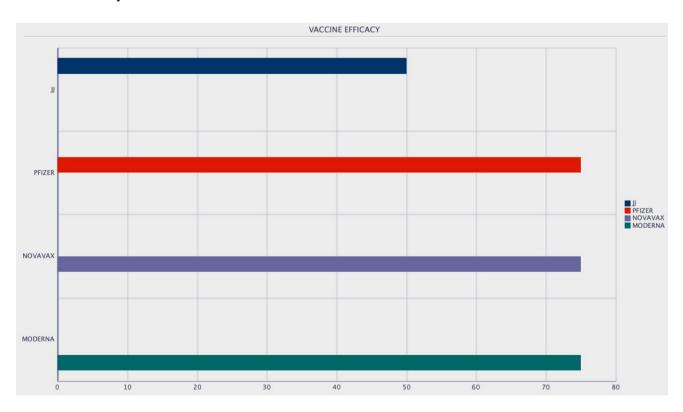
# 2. Hospital Wise Total Vaccine Administered



## 3. Region Wise Total Vaccine Administered



## 4. Vaccine Efficacy



## 5. Vaccine Type Wise Administered

