

1. Recipient Details: All details of recipients.

```
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

	MEDICAL_WORKER_ID	FIRST_NAME	TOTAL_VACCINE_ADMINISTERED
1	12011	JOHN	3
2	12012	FIONA	4
3	12018	JUAN	2
4	12015	ANA	2
5	12019	ANIKI	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

	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.

WEEK	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	⚡ TOTAL_VACCINE_TYPE
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

GROUP BY VACCINE_NAME;
```

7. Total_billing_by_hospital : Total Billed amount by Hospital

	⚡ HOSPITAL_ID	⚡ HOSPITAL_NAME	⚡ TOTAL_BILLING
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.

	VACCINE_RECORD_DATE	TOTAL_VACCINE_ADMINISTERED
1	20-MAR-20	1
2	29-NOV-20	1
3	08-JUN-21	1
4	20-SEP-21	1
5	10-NOV-21	1
6	17-NOV-21	1
7	20-NOV-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-OCT-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).

	VACCINE_NAME	EFFICACY
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

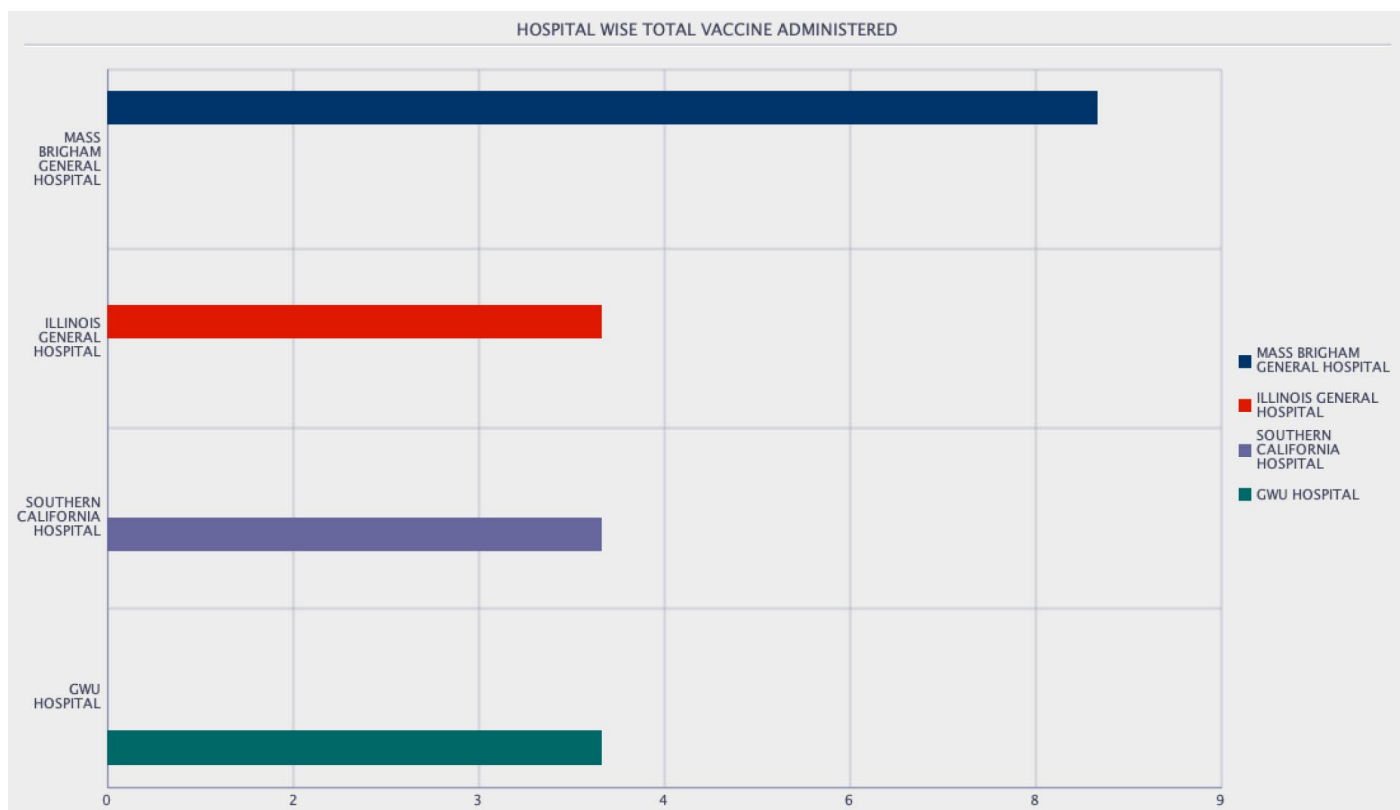
GROUP BY VD.VACCINE_NAME;
```

Reports:

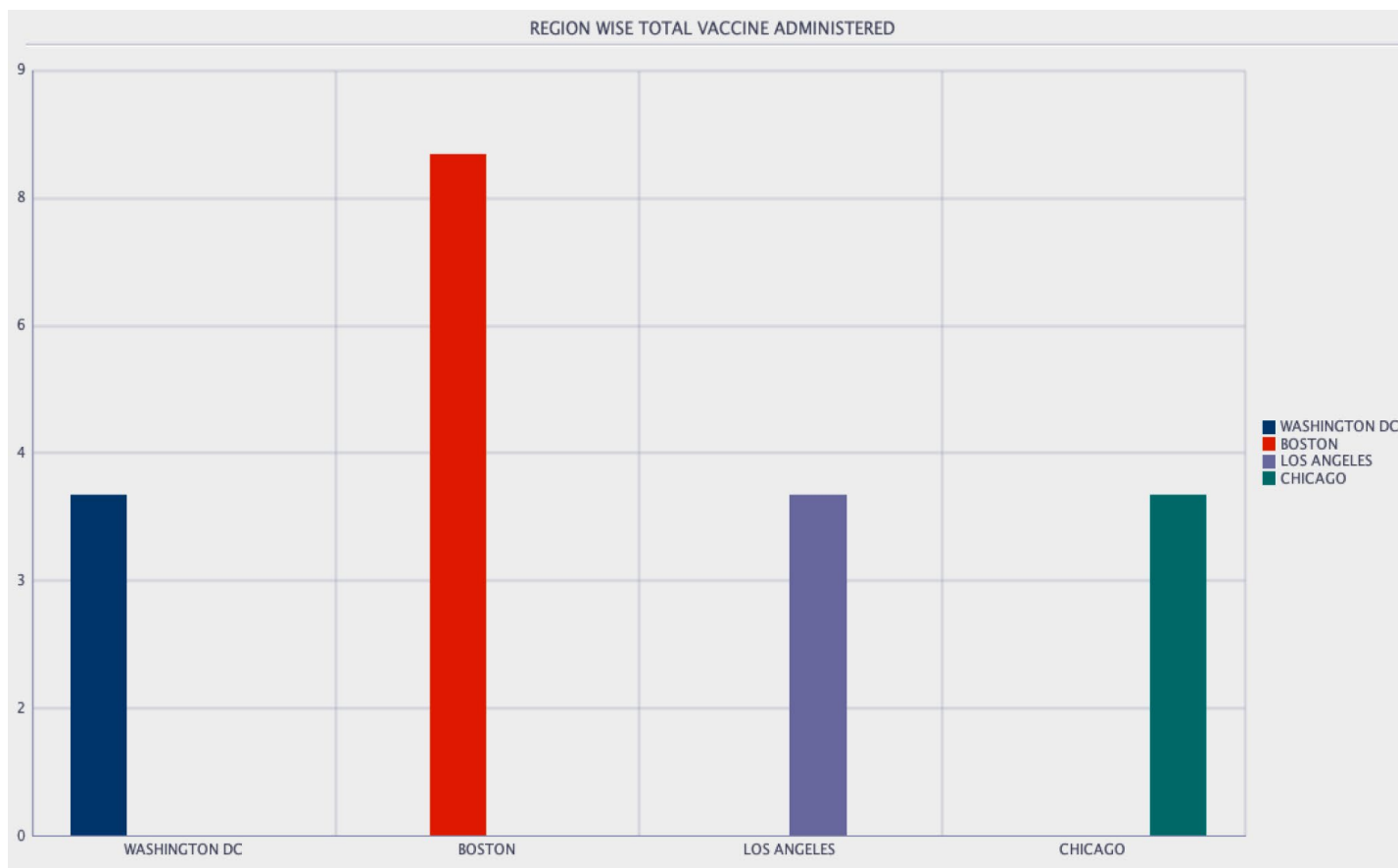
1. Medical Worker Wise Vaccine Total Vaccine Administered



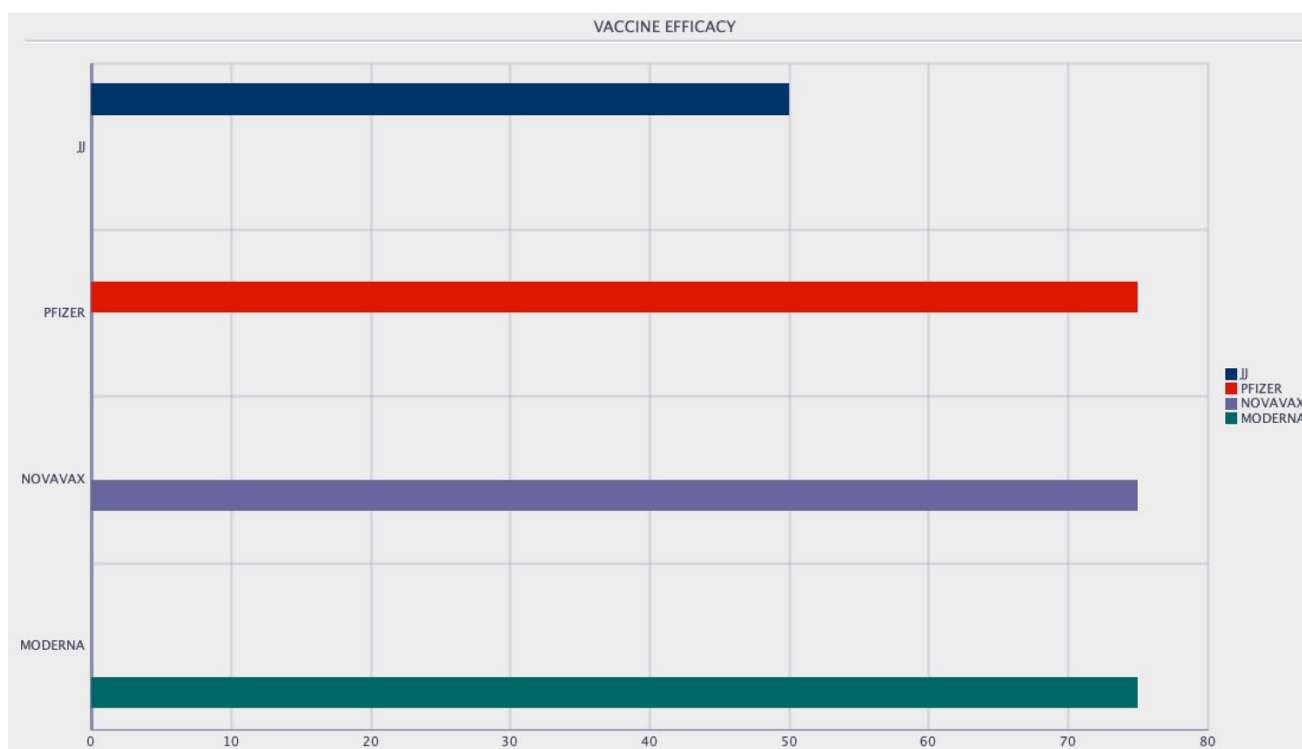
2. Hospital Wise Total Vaccine Administered



3. Region Wise Total Vaccine Administered



4. Vaccine Efficacy



5. Vaccine Type Wise Administered

