

sql queries:

1) To retrieve frequency of each disease

```
SELECT
    p51.basic_diagnosis AS Disease,
    YEAR(pre.entrydate) AS Year,
    COUNT(*) AS Frequency
FROM
    pre
JOIN
    p51
ON
    pre.preid = p51.preid
WHERE
    pre.entrydate IS NOT NULL
GROUP BY
    p51.basic_diagnosis, YEAR(pre.entrydate)
ORDER BY
    p51.basic_diagnosis, Year;
```

2) Age (mean \pm standard deviation)

```
SELECT
    AVG(age) AS mean_age,
    STDDEV(age) AS sd_age
FROM
    patient_table
WHERE
    visit_year = '2021-2022' OR visit_year = '2022-2023' OR visit_year = '2023-2024';
```

3)Adult and Child Percentage

```
SELECT
    gender,
    SUM(CASE WHEN age >= 18 THEN 1 ELSE 0 END) / COUNT(*) * 100 AS adult_percentage,
    SUM(CASE WHEN age < 18 THEN 1 ELSE 0 END) / COUNT(*) * 100 AS child_percentage
FROM
    patient_table
WHERE
    visit_year = '2021-2022' OR visit_year = '2022-2023' OR visit_year = '2023-2024'
GROUP BY
    gender;
```

4)Caste Distribution

```
SELECT
    caste,
    COUNT(*) / (SELECT COUNT(*) FROM patient_table WHERE visit_year = '2021-2022') * 100 AS percentage
FROM
    patient_table
WHERE
    visit_year = '2021-2022' OR visit_year = '2022-2023' OR visit_year = '2023-2024'
GROUP BY
    caste;
```