

## Massachusetts General Hospital (Synthetic Data)

Covers synthetic patient data from January 2011 to February 2022 inclusive

Multiple tables:

- 1.) Encounters – 27891 rows, 14 columns
- 2.) Organizations – 1 row, 8 columns
- 3.) Patients – 974 rows, 20 columns
- 4.) Payers – 10 rows, 7 columns
- 5.) Procedures – 47701 rows, 10 columns

Downloaded from <https://mavenanalytics.io/data-playground>

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-- Number of patients who have been admitted or readmitted over time

```
SELECT COUNT(DISTINCT PATIENT) AS 'AdmittedReaddmittedPatients',
```

```
    DATENAME(MONTH, START) AS 'Month',
```

```
    YEAR(START) AS 'Year'
```

```
FROM MassachusettsGeneralHospital.encounters
```

```
WHERE DESCRIPTION LIKE '%admission%'
```

```
GROUP BY
```

```
    MONTH(START),
```

```
    DATENAME(MONTH, START),
```

```
    YEAR(START)
```

```
ORDER BY Year ASC, MONTH(START) ASC;
```

-- Average duration of patient stay in the hospital

```
SELECT CAST(
```

```
    AVG(
```

```
        CAST(
```

```
            DATEDIFF(SECOND, START, STOP)
```

```
        AS FLOAT)
```

```
    ) / 3600
```

```
AS DECIMAL(10,2)) AS 'AverageStayInHours'
FROM MassachusettsGeneralHospital.encounters;
```

-- Average cost per visit

```
SELECT ROUND(
    SUM(TOTAL_CLAIM_COST) / COUNT(Id)
, 0)
AS 'AverageCostPerVisitInUSD'
FROM MassachusettsGeneralHospital.encounters;
```

-- Count of procedures covered by insurance

```
SELECT COUNT(MassachusettsGeneralHospital.procedures.CODE) AS 'ProceduresCoveredByInsurance'
FROM MassachusettsGeneralHospital.procedures
JOIN MassachusettsGeneralHospital.encounters
    ON MassachusettsGeneralHospital.procedures.ENCOUNTER =
    MassachusettsGeneralHospital.encounters.Id
JOIN MassachusettsGeneralHospital.payers
    ON MassachusettsGeneralHospital.encounters.PAYER = MassachusettsGeneralHospital.payers.Id
WHERE MassachusettsGeneralHospital.payers.NAME <> 'NO_INSURANCE';
```