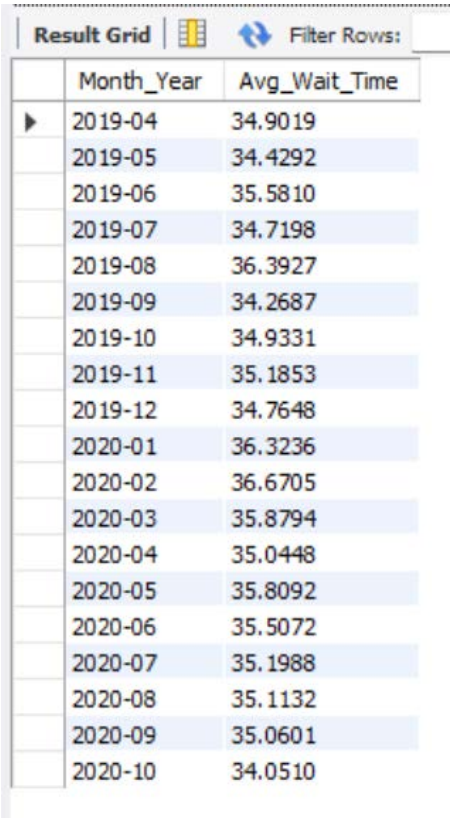
**KEY SQL Commands - for business questions analysis & findings**

```
# Total patient visits in 2019
SELECT COUNT(*) AS total_visits_2019
FROM hospital_er.er_visit
WHERE YEAR(date) = 2019; -- 4338

# Total patient visits in 2020
SELECT COUNT(*) AS total_visits_2020
FROM hospital_er.er_visit
WHERE YEAR(date) = 2020; -- 4878

# Verify the Max & Min visits count for August 2019 and Feb 2020
SELECT COUNT(*) AS total_visits_august_2020
FROM hospital_er.er_visit
WHERE YEAR(date) = 2020 AND MONTH(date) = 8; -- 530

SELECT COUNT(*) AS total_visits_Feb_2020
FROM hospital_er.er_visit
WHERE YEAR(date) = 2020 AND MONTH(date) = 2; -- 431

# Average wait-time according to given month-year
SELECT
   DATE_FORMAT(Date, '%Y-%m') AS Month_Year,  -- Format as YYYY-MM
   AVG(patient_waittime) AS Avg_Wait_Time
FROM er_visit
GROUP BY Month_Year
ORDER BY Month_Year;
```

**Result:**

**KEY SQL Commands - for business questions analysis & findings**



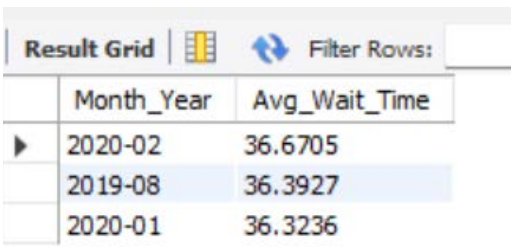
Result Grid | Filter Rows:

| Month_Year | Avg_Wait_Time |
|---|---|
| 2019-04 | 34.9019 |
| 2019-05 | 34.4292 |
| 2019-06 | 35.5810 |
| 2019-07 | 34.7198 |
| 2019-08 | 36.3927 |
| 2019-09 | 34.2687 |
| 2019-10 | 34.9331 |
| 2019-11 | 35.1853 |
| 2019-12 | 34.7648 |
| 2020-01 | 36.3236 |
| 2020-02 | 36.6705 |
| 2020-03 | 35.8794 |
| 2020-04 | 35.0448 |
| 2020-05 | 35.8092 |
| 2020-06 | 35.5072 |
| 2020-07 | 35.1988 |
| 2020-08 | 35.1132 |
| 2020-09 | 35.0601 |
| 2020-10 | 34.0510 |

# The months with the highest wait-time

```
SELECT
   DATE_FORMAT(Date, '%Y-%m') AS Month_Year,
   AVG(patient_waittime) AS Avg_Wait_Time
FROM er_visit
GROUP BY Month_Year
ORDER BY Avg_Wait_Time DESC
LIMIT 3;  -- This retrieves the month with the highest wait time
```

**Result:**



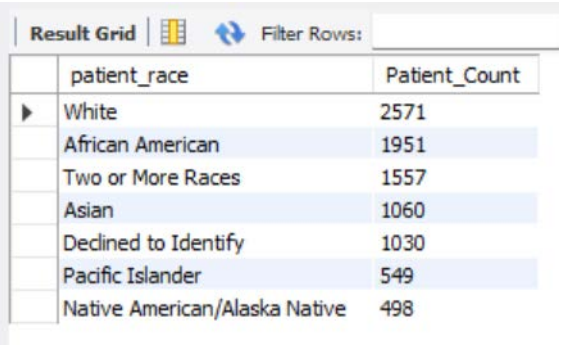
Result Grid | Filter Rows:

| Month_Year | Avg_Wait_Time |
|---|---|
| 2020-02 | 36.6705 |
| 2019-08 | 36.3927 |
| 2020-01 | 36.3236 |

**KEY SQL Commands - for business questions analysis & findings**

```
# Count of patients by race
SELECT
   patient_race,
   COUNT(*) AS Patient_Count
FROM er_visit
GROUP BY patient_race
ORDER BY Patient_Count DESC;
```

**Result:**



Result Grid | Filter Rows:

| patient_race | Patient_Count |
|---|---|
| White | 2571 |
| African American | 1951 |
| Two or More Races | 1557 |
| Asian | 1060 |
| Declined to Identify | 1030 |
| Pacific Islander | 549 |
| Native American/Alaska Native | 498 |