

Microsoft

As a Data Analyst on the Windows Update team, you are tasked with analyzing user update behaviors to improve the update experience....

Question 1: In October 2024, what is the fastest successful (no error) installation time recorded for a Windows update? This metric will help us benchmark the best-case update performance for our deployment strategy.

```
SELECT MIN(installation_time_minutes) AS min_install_time_oct
FROM fct_update_installations
WHERE installation_error = FALSE
      AND TO_CHAR(installation_date, 'YYYY-MM') = '2024-10';
```



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Question 2: In November 2024, how many unique users successfully installed a Windows update without encountering any installation errors? This figure will help us assess update reliability.

```
SELECT COUNT(DISTINCT user_id) AS successful_users_nov
FROM fct_update_installations
WHERE installation_error = FALSE
      AND TO_CHAR(installation_date, 'YYYY-MM') = '2024-11';
```



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Question 3: In December 2024, what is the fastest installation time for Windows updates among users who did not experience any errors? This metric will directly inform our update communication and deployment strategy to increase adoption rates.

```
SELECT MIN(installation_time_minutes) AS min_install_time_dec
FROM fct_update_installations
WHERE installation_error = FALSE
      AND TO_CHAR(installation_date, 'YYYY-MM') = '2024-12';
```

