

Subject: Action Required: Data Quality Issue Identified in Database

Dear Product Manager,

I hope this message finds you well.

I'm writing to inform you of a crucial data quality issue that has been identified in our database. This issue has implications for our brand and product/item tracking and customer rewards system.

Issue:

A discrepancy was found while updating our database schema. Specifically, when setting barcode as the primary key for the products table, it became evident that multiple product/items record shared identical barcodes, which contradicts our data integrity rules—since barcodes should uniquely identify each item.

Discovery Method:

The problem came to light when the system rejected the operation due to duplicate barcode entries. To investigate further, I executed a SQL query to pinpoint all records with non-unique barcodes.

Information Required to Resolve the Issue:

To address this issue and prevent future occurrences, we need to understand the source of these duplicates:

1. Are they the result of manual data entry errors or an issue within our product/items import process?
2. Could there have been a change in barcode assignment practices that led to this situation?

Additional Information Needed:

To optimize our data assets and maintain data integrity, we require:

1. A review of the data entry and import protocols for product/items information.
2. A confirmation of the barcode assignment process

Performance and Scaling Concerns:

If left unresolved, this issue may lead to inefficiencies in data processing, challenges in scaling our database, and potentially, a negative impact on customer experience.

To mitigate this, I propose:

1. Immediate remediation of the current duplicates.
2. Introduction of automated checks for data integrity at the point of entry.
3. Periodic audits of data quality for early detection of irregularities.

Action Plan:

I recommend convening a meeting with key stakeholders and subject matter expertise, to discuss this issue. Our goal will be to clarify the barcode assignment process, implement corrective measures, and establish a go-forward plan to ensure the integrity of our product data.

Please let me know your availability for this meeting or if there is any additional information, I can provide beforehand.

Thank you for your prompt attention to this matter.

Warm regards,
Cindy