

DAY 6

Takeaways

- **DATE_ADD function** will help you to get a new date based on a given date by specifying the additional interval
- **User defined function** is a piece of SQL code that you can reuse conveniently at multiple places in SQL queries
- **DETERMINISTIC function** means the output will be always the same for a given input
- **NOT DETERMINISTIC function** means the output will differ depending upon the time of execution even with the same input

Takeaways

- **Business users** generally analyse and compare the metrics based on quarters and fiscal year
- Create a function if you think a particular piece of **code would be reused at multiple places**

Takeaways

- It is important to maintain a **constant communication with your stakeholders** throughout the project phase
- Knowing basics of any **project management tool is beneficial for you**

⚡ AFA-1 / ✅ AFA-6

Gross monthly total sales report for Croma



Attach



Add a child issue



Link issue



Description

As a product owner, **I need** an aggregate monthly gross sales report for Croma India customer **so that** I can track how much sales this particular customer is generating for AtliQ and manage our relationships accordingly.

The report should have the following fields,

1. Month
2. Total gross sales amount to Croma India in this month

Activity

Show:

All

Comments

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Add a comment...

Pro tip: press **M** to comment

Created stored proc for monthly gross sales report

📎 Attach

👉 Add a child issue

🔗 Link issue



Description

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As a data analyst, I want to create a stored proc for monthly gross sales report so that I don't have to manually modify the query every time. Stored proc can be run by other users to (who have limited access to database) and they can generate this report without having to involve data analytics team.

The report should have the following columns,

1. Month
2. Total gross sales in that month from a given customer



Add a comment...

Pro tip: press **M** to comment

In Progress ▾

Pinned fields

Click on the ✨ next to a field label to start

Details

Assignee



Peter Pand

Labels

None

Reporter







Tony Sharr

Created 10 seconds ago

Updated 9 seconds ago

Stored proc for market badge

 Attach  Add a child issue  Link issue  

Description

Create a stored proc that can determine the market badge based on the following logic,

If **total sold quantity** > **5 million** that market is considered **Gold** else it is **Silver**



My input will be,

- market
- fiscal year

Output

- market badge

Activity

Show:   

Newest first 



Add a comment...

Pro tip: press  to comment

In Progress 

Pinned fields

Click on the  next to a field label to

Details

Assignee  Peter I

Labels None

Reporter  Tony S

Created 4 minutes ago

Updated 4 minutes ago

Takeaways

- **Stored procedure** is a way to automate repeated tasks such as creating same report for different customers
- The Query that needs to be executed in a stored procedure is **copied between BEGIN and END clause**
- One can enter **multiple values as input to run a query** and retrieve an aggregated report


```
In [58]: df_flipkart = pd.read_sql_query(  
        f"call gdb041.get_yearly_gross_sales_for_customer('{flipkart_customer_codes}');",  
        engine  
    )  
    df_flipkart.head()
```

```
Out[58]:
```

| | fiscal_year | yearly_sales |
|---|-------------|--------------|
| 0 | 2018 | 1847343.63 |
| 1 | 2019 | 4726304.97 |
| 2 | 2020 | 12995383.29 |
| 3 | 2021 | 30682137.66 |
| 4 | 2022 | 57590481.09 |

Example of pulling data via
stored procedure in jupyter
notebook

Takeaways

- **Classification of an attribute** such as country based on criteria such as revenue is an important business use case
- One can indicate the **input parameter(s) and output parameter** by using IN and OUT clauses respectively
- **Recall: 'GROUP BY'** is the function that you will need to perform an aggregation
- **SQL is the salt of data science** that you need in all data recipes