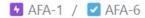
# DAY 6

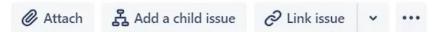
- DATE\_ADD function will help you to get a new date based on a given date by specifying the additional interval
- User defined function is a piece of SQL code that you can reuse conveniently at multiple places in SQL queries
- DETERMINISTIC function means the output will be always the same for a given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

- 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

- 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



### Gross monthly total sales report for Croma



#### 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

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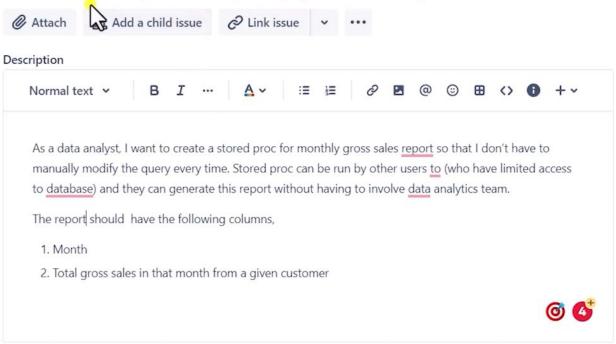
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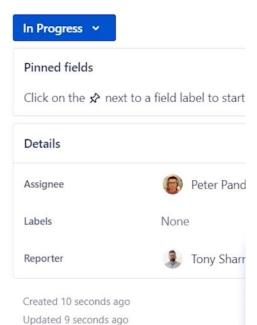


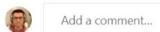




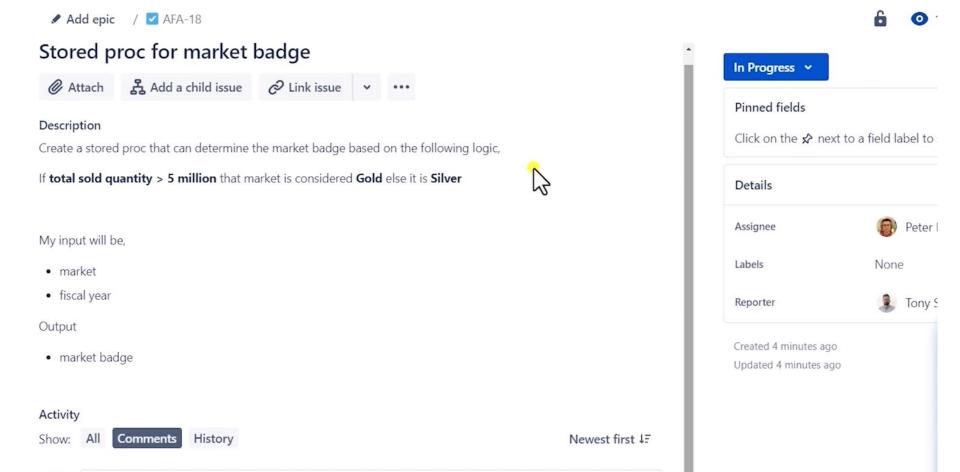
### Created stored proc for monthly gross sales report







Pro tip: press M to comment



Add a comment...

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- 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

- 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