



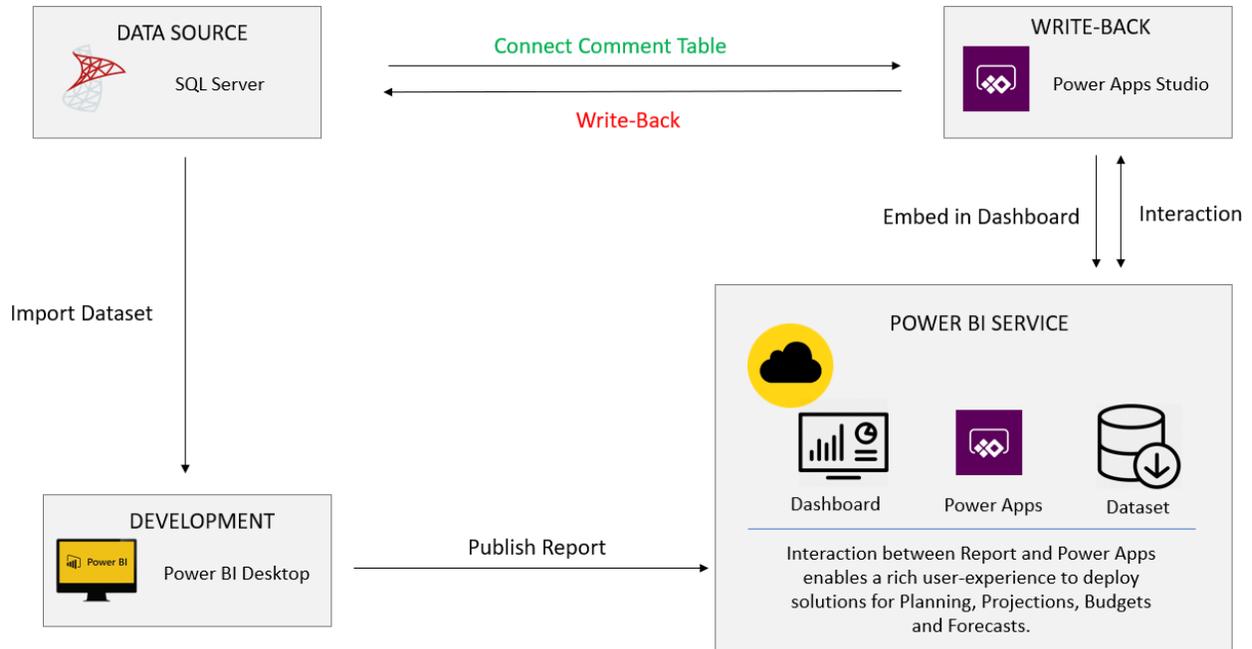
## Advanced Comment System in Power BI

Microsoft Power BI has brought many new inventive and useful data visualizations as the product grew since it first released to the market in 2014. In the same time, it is becoming a major BI analytics product where more clients are interested. In Yuuruu, we are constantly seeking to deliver solutions in the newest technologies and to come up with the top product for our clients.

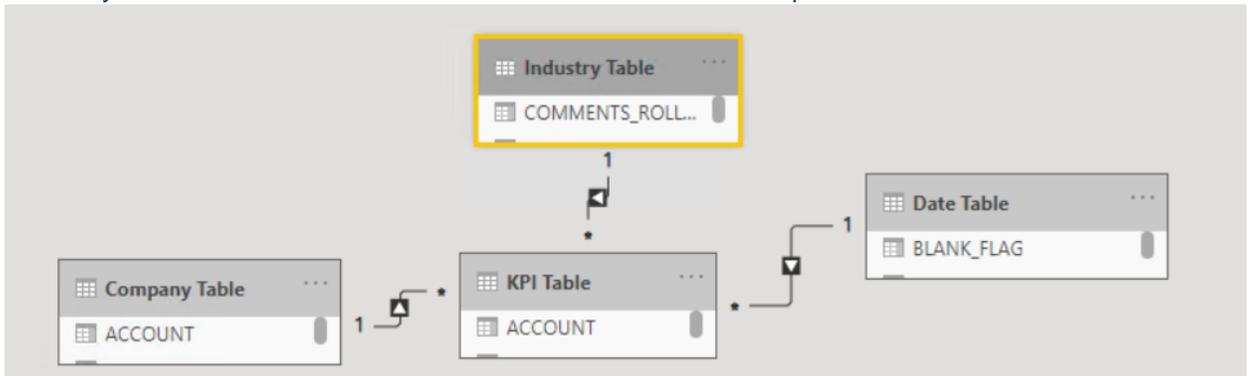
This time, one of our clients required a reporting solution which included an advanced commenting system for collaboration and planning purpose with an interactive tool using Microsoft products. With the comment functionality come with Power Bi service, the application is immature and limited. The comments can only be added to either a dashboard, an individual visual, or to a report page, but not at per transaction level.

In order to provide the right product for client, our team has implemented an end-to-end solution by combining [MS SQL](#), [Power BI](#), [Power Platform](#), and [Power Apps](#). In this case study, we will show how we can implement all the potential of Microsoft BI tools to boost data visualization and reporting to a whole new level.

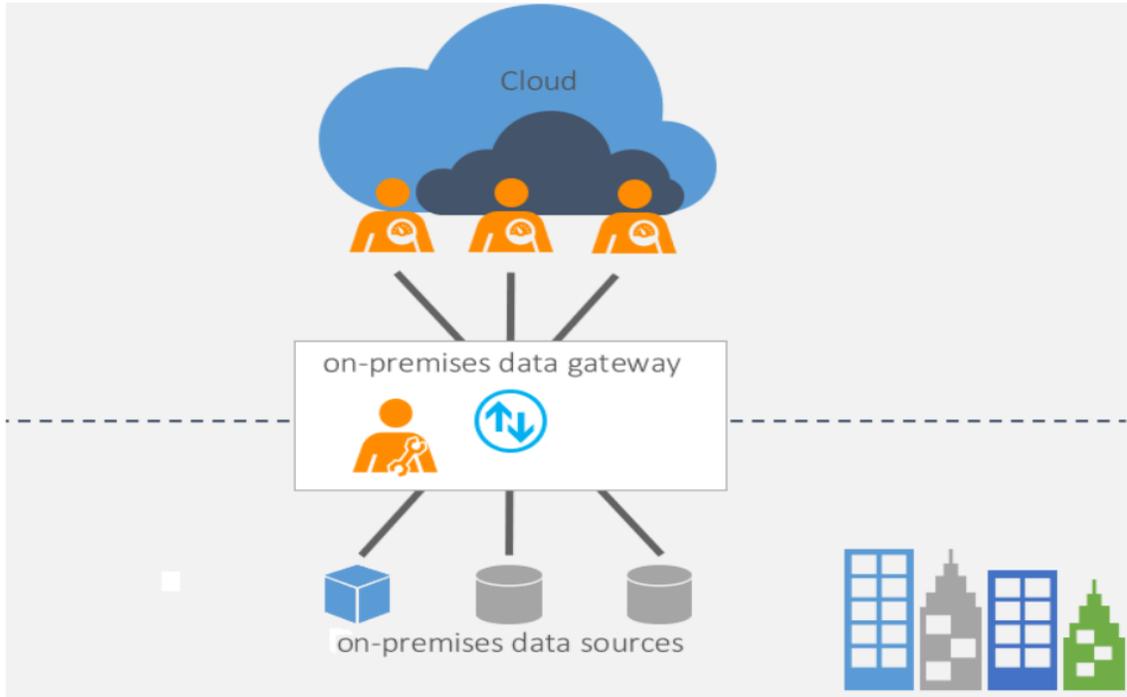
To achieve the best result, we have designed the architecture and developed in the following steps.



1. We use SQL server as data source and create a comment table in database where we can prepopulate data. The granularity for the comment is industry/Week. Below is the data model for Power BI report.



2. Next, we start to implement the Power Apps for writing back functions. Before we get started, we need to install the Microsoft Data Gateway to set the connection between Power Apps and SQL server, this allows live data for end users. In Power Apps studio, we will use SQL server connector to load the data from comment table.



3. We have custom designed Power Apps user interface to perfectly fit in the Power BI report page. In advanced setting, we change the orientation and size to match the report from Power BI.

Orientation

Landscape

Portrait

Size

16:9 (Default)

3:2 (Surface Pro 3)

16:10 (Widescreen)

4:3 (iPad)

Custom

Width

Height

4. We use *Power Apps Visual for Power BI* where we can pass the variables/values from Power BI to Power Apps, then Power Apps uses the variable locate the transactions and perform DML in Power Apps directly update the data mart or data warehouse, and immediately see the impact of the changes. In this case, we have passed the value of industry and date stamp to the Power Apps Comment form. As a result, both Power Apps form and Power BI report will reflect the change as the slicer changes.



## **Conclusions and future improvements**

In this article, we have integrated Power Apps form in a Power BI report in order to provide custom comment/write back functionality into the data source directly from the Power BI/Power Apps interface.

If you wish to obtain deeper insights into your business using Power Platform, don't hesitate to contact YUURUU and we will be happy to advise you!

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