

**From:** mk204009@gmail.com  
**Sent:** Wednesday, 4 June, 2025 00:05  
**To:** 'Kalyani Nivsarkar'  
**Cc:** 'Mohit Chugh'  
**Subject:** Update: Completion of BI Engineer - Case Study Dashboard Development & Final Report  
**Attachments:** Patient Analytics Dashboard.pdf

**Importance:** High

Dear Mam,

I am pleased to inform you that the Case Study Dashboard development has been **successfully completed**.  
By using an **Agile, sprint-based approach**, we could make steady progress, adapt to changing needs, and ensure the **final dashboard met our objectives**.

Attached is the presentation, offering a **complete overview of the dashboard solution**, its insights, and our development process

**Below is the High-Level Plan Progress Status:**

Activity ID	Key Milestone	Detailed Activities	Estimated Time (Hours)	Target Completion	Status
A1	Data Connection & Preparation	Connect to dummy data source, perform initial data cleaning and shaping within Tableau.	4	End of Day 1 (June 2)	Completed
A2	Data Model & Relationships	Define relationships between tables, create calculated fields for initial data transformation.	1	End of Day 1 (June 2)	Completed
A3	Core Measures & Dimensions	Identify and set up key measures and dimensions	2	End of Day 1 / Start of Day 2	Completed
A4	Calculated Fields & Parameters	Develop complex calculated fields for KPIs	2	End of Day 2 (June 3)	Completed
A5	Dashboard Design & Visualizations	Create all required dashboard sheets, build appropriate chart types apply filters and actions.	5	End of Day 2 (June 3)	Completed
A6	Performance Tuning & User Experience	Optimize workbook performance, refine dashboard layouts	1	End of Day 2 (June 3)	Completed
A7	Publishing & Sharing	Prepare workbook for local demonstration	1	Morning of Day 3 (June 4)	Completed
A8	Case Study Discussion & Demo	Present the Tableau dashboard and discuss insights.	N/A	Day 3 (June 4)	Scheduled

Looking forward to showcasing and discussing the dashboard. Please send any questions prior to meeting.

Sincerely,  
Mohit Chugh  
P: +91-8368853113  
E: [mk204009@gmail.com](mailto:mk204009@gmail.com)  
L: <https://www.linkedin.com/in/mohit01chugh/>  
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**From:** Kalyani Nivsarkar <[Kalyani.Nivsarkar@improzo.com](mailto:Kalyani.Nivsarkar@improzo.com)>  
**Sent:** Tuesday, June 3, 2025 8:13 PM  
**To:** [mk204009@gmail.com](mailto:mk204009@gmail.com)  
**Subject:** Re: Update on BI Engineer - Case Study Dashboard Development

Fantastic, looking forward to the discussion Mohit.

Thanks,  
Kalyani

**Kalyani S. Nivsarkar**  
Director, Insights & Analytics  
[Redacted]  
Email : [kalyani.nivsarkar@improzo.com](mailto:kalyani.nivsarkar@improzo.com)  
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**From:** [mk204009@gmail.com](mailto:mk204009@gmail.com) <[mk204009@gmail.com](mailto:mk204009@gmail.com)>  
**Sent:** 03 June 2025 20:05  
**To:** Kalyani Nivsarkar <[Kalyani.Nivsarkar@improzo.com](mailto:Kalyani.Nivsarkar@improzo.com)>  
**Subject:** Update on BI Engineer - Case Study Dashboard Development

Dear Mam,

Thank you for confirming Wednesday's demo; I am eager to showcase the progress.

Since our last update, I have significantly advanced the dashboard's development in Tableau, finalizing the structure and integrating key KPIs across all sections.

**Below is the High-Level Plan Progress Status:**

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A5	Dashboard Design & Visualizations	Create all required dashboard sheets, build appropriate chart types apply filters and actions.	5	End of Day 2 (June 3)	In-Process
A6	Performance Tuning & User Experience	Optimize workbook performance, refine dashboard layouts	1	End of Day 2 (June 3)	To Do
A7	Publishing & Sharing	Prepare workbook for local demonstration	1	Morning of Day 3 (June 4)	To Do
A8	Case Study Discussion & Demo	Present the Tableau dashboard and discuss insights.	N/A	Day 3 (June 4)	To Do

Sincerely,  
Mohit Chugh  
P: +91-8368853113  
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From: Kalyani Nivsarkar <[Kalyani.Nivsarkar@improzo.com](mailto:Kalyani.Nivsarkar@improzo.com)>  
Sent: Monday, June 2, 2025 10:58 PM  
To: [mk204009@gmail.com](mailto:mk204009@gmail.com)  
Subject: Re: BI Engineer - Case Study -- Proposed Development Roadmap

Thank you Mohit, pls go ahead and look forward to seeing the demo on Wednesday!

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From: [mk204009@gmail.com](mailto:mk204009@gmail.com) <[mk204009@gmail.com](mailto:mk204009@gmail.com)>  
Sent: Monday, June 2, 2025 10:47:36 PM  
To: Kalyani Nivsarkar <[Kalyani.Nivsarkar@improzo.com](mailto:Kalyani.Nivsarkar@improzo.com)>  
Subject: RE: BI Engineer - Case Study -- Proposed Development Roadmap

Dear Mam,

Thank you for your response and for confirming the plan.

Absolutely, I am already working on showcasing the development plan in Tableau. I agree it will make everything much clearer.

I have just drafted a more detailed roadmap, specifically for the **Tableau development**. This plan also shows our current progress.

Below is the High-Level Plan:

Activity ID	Key Milestone	Detailed Activities	Estimated Time (Hours)	Target Completion	Status
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A2	Data Model & Relationships	Define relationships between tables, create calculated fields for initial data transformation.	1	End of Day 1 (June 2)	In-Process
A3	Core Measures & Dimensions	Identify and set up key measures and dimensions	2	End of Day 1 / Start of Day 2	To Do
A4	Calculated Fields & Parameters	Develop complex calculated fields for KPIs	2	End of Day 2 (June 3)	To Do
A5	Dashboard Design & Visualizations	Create all required dashboard sheets, build appropriate chart types apply filters and actions.	5	End of Day 2 (June 3)	To Do
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A8	Case Study Discussion & Demo	Present the Tableau dashboard and discuss insights.	N/A	Day 3 (June 4)	To Do

Sincerely,  
Mohit Chugh  
P: +91-8368853113  
E: [mk204009@gmail.com](mailto:mk204009@gmail.com)  
L: <https://www.linkedin.com/in/mohit01chugh/>  
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From: Kalyani Nivsarkar <[Kalyani.Nivsarkar@improzo.com](mailto:Kalyani.Nivsarkar@improzo.com)>  
Sent: Monday, June 2, 2025 5:33 PM  
To: [mk204009@gmail.com](mailto:mk204009@gmail.com)  
Subject: Re: BI Engineer - Case Study -- Proposed Development Roadmap

Thank you Mohit, would you be able to do this in Tableau?

The plan looks good, hoping you can showcase this in tableau.

Regards,  
Kalyani.

Kalyani S. Nivsarkar  
Director, Insights & Analytics  
  
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**From:** [mk204009@gmail.com](mailto:mk204009@gmail.com) <[mk204009@gmail.com](mailto:mk204009@gmail.com)>  
**Sent:** 02 June 2025 14:00  
**To:** Kalyani Nivsarkar <[Kalyani.Nivsarkar@improzo.com](mailto:Kalyani.Nivsarkar@improzo.com)>  
**Subject:** RE: BI Engineer - Case Study -- Proposed Development Roadmap

Dear Mam,

Thank you again for the opportunity to work on the patient analytics dashboard case study for providing the detailed requirements.

I have drafted a **proposed roadmap** outlining the key milestones, structured with an **agile approach** to ensure iterative progress and flexibility.

Our immediate focus for **Sprint 1** is completing core dashboard development within the next two days, in preparation for our discussion on **Wednesday, June 4th**.

**Below is the High-Level Plan:**

Activity ID	Key Milestone	Detailed Activities	Estimated Time (Hours)	Target Completion	Status
A1	Data Preparation	Dummy Data Schema & Generation Complete	4	End of Day 1 (Mon, June 2)	In-Process
A2	Data Integration	Data Loaded & Accessible in Development Environment	1	End of Day 1 (Mon, June 2)	To Do
A3	Data Modeling	Logical Data Model Defined & Implemented	2	End of Day 1 / Start of Day 2	To Do
A4	DAX Calculations	Core KPI Metrics Developed & Tested	2	End of Day 2 (Tue, June 3)	To Do
A5	Data Visualizations	All Dashboard Views Created & Functional	5	End of Day 2 (Tue, June 3)	To Do
A6	Performance Optimization	Dashboard Responsiveness & Efficiency Reviewed	1	End of Day 2 (Tue, June 3)	To Do
A7	Deployment & Maintenance	Ready for Local Demonstration	1	Morning of Day 3 (Wed, June 4)	To Do
A8	Share & Collaborations	Case Study Discussion & Demo	N/A	Day 3 (Wed, June 4)	To Do

I will keep you updated on our progress. Please share any initial thoughts or questions you may have.

Sincerely,  
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**From:** Kalyani Nivsarkar <[Kalyani.Nivsarkar@improzo.com](mailto:Kalyani.Nivsarkar@improzo.com)>  
**Sent:** Monday, June 2, 2025 10:56 AM  
**To:** [mk204009@gmail.com](mailto:mk204009@gmail.com)  
**Subject:** Re: BI Engineer - Case Study

Thank you Mohit.

Regards,  
Kalyani.

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**From:** [mk204009@gmail.com](mailto:mk204009@gmail.com) <[mk204009@gmail.com](mailto:mk204009@gmail.com)>  
**Sent:** Monday, June 2, 2025 10:55:33 AM  
**To:** Kalyani Nivsarkar <[Kalyani.Nivsarkar@improzo.com](mailto:Kalyani.Nivsarkar@improzo.com)>  
**Subject:** RE: BI Engineer - Case Study

Dear Mam,

Thank you for the opportunity and the detailed requirements.

I will endeavor to submit the deliverables as soon as possible.

Sincerely,  
Mohit Chugh  
P: +91-8368853113  
E: [mk204009@gmail.com](mailto:mk204009@gmail.com)  
L: <https://www.linkedin.com/in/mohit01chugh/>  
G: <https://github.com/mohit01chugh/>

**From:** Kalyani Nivsarkar <[Kalyani.Nivsarkar@improzo.com](mailto:Kalyani.Nivsarkar@improzo.com)>  
**Sent:** Sunday, June 1, 2025 11:48 PM  
**To:** [mk204009@gmail.com](mailto:mk204009@gmail.com)  
**Subject:** BI Engineer - Case Study

Hi Mohit,

Thanks for your time today.

Please see below a brief on the case study that you could work on before our discussion on Wednesday. For the JD pls look at the BI engineer and Consultant - Insights and Analytics JD on Improzo site.

**Problem statement** - Develop a patient analytics dashboard with the following views/ KPIs using dummy data. Please feel free to create mock data for the above KPIs and then proceed to creating the dashboard. Let me know if you face any issues or have any questions while creating the dataset.

0)

1. **Patient Distribution by Indication** – by age group, ethnicity, and payer type.
2. **Patient distribution by treatment for a given indication - same filters as above**
3. **Treatment Success Rate by Indication** – visualization comparing success rates across different treatments, filtered by pharmacy type.
4. **Cost per Patient by Indication** – visualization to show cost variations, with filters for payer type and provider type.
5. **Readmission Rate by Indication** – Heatmap highlighting conditions with high readmission risks, filtered by age group and ethnicity.
6. **Length of Stay by Treatment** – showing hospital stay durations, filtered by payer type and age group.
7. **Treatment Efficacy Comparison** – comparing different treatments, with filters for provider type and ethnicity.
8. **Mortality Rate by Treatment** – displaying mortality trends, filtered by indication and provider type.

2.

Thanks,  
Kalyani.