Leveraging Data and Analytics to Support Continuous Improvements in Education

Sidharth Oberoi, Head of Global Product
Agenda

• Approaches to Data & Analytics
• Data Access
• Live Events & Caliper
• Questions & Open Conversation
• Next Steps
Data & Analytics Products

Data Access Platform

Updated Course Analytics

“Dig” Learning Analytics Platform
Data Tenets

• Awesomeness begins with access.

• Empower people, don’t define them.

• Innovate in partnership.
### Canvas Data: Outcomes, Catalog

#### catalog_order_fact

<table>
<thead>
<tr>
<th>Name</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>catalog_order_id</td>
<td>bigint</td>
<td>Foreign key to the catalog order dim</td>
</tr>
<tr>
<td>catalog_id</td>
<td>bigint</td>
<td>Foreign key to the catalog dim</td>
</tr>
<tr>
<td>parent_catalog_id</td>
<td>bigint</td>
<td>Foreign key to the catalog dim; references the parent of the catalog that this order belongs to</td>
</tr>
<tr>
<td>user_id</td>
<td>bigint</td>
<td>Foreign key to the user dim; refers to the user associated with this order</td>
</tr>
<tr>
<td>total</td>
<td>double</td>
<td>Cost of the catalog order; Units are found in catalog_order_dim.currency</td>
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#### catalog_order_item_fact

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<td>Foreign key to the catalog dim</td>
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<tr>
<td>parent_catalog_id</td>
<td>bigint</td>
<td>Foreign key to the catalog dim; references the parent of the catalog that this order item belongs to</td>
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<tr>
<td>catalog_order_id</td>
<td>bigint</td>
<td>Foreign key to the catalog order dim</td>
</tr>
<tr>
<td>catalog_product_id</td>
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<td>Foreign key to the catalog product dim; refers to the course or program</td>
</tr>
<tr>
<td>Event Type</td>
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<td>Live Events Raw (Alpha)</td>
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<tr>
<td>----------------------------------------------</td>
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<tr>
<td>asset_accessed</td>
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Course Grades

A screenshot of a course management system showing a graph with a course grade of 44.95%. The graph displays assignments, discussions, and quizzes.
Weekly Online Activity
Student View
Data Access Platform Roadmap

• Self-service UI
• Data Pipeline and Freshness
• More integration options
• Additional Data
• New Events
Updated Course Analytics
Personas

Jill Tan
Assist. Professor, History

• Engage all students
• Improve course design
• Achieve learning outcomes

Sofia García
Student, Undergrad Degree

• Track performance
• Improve On Time Submissions
New Analytics Roadmap

• September 2019 — Canvas Beta
• October 2019 — Canvas Production (GA)
• March 2020 – Legacy Course Analytics Deprecated
Faculty Questions

- Are my students on track to success?
- Are students on track to pass their courses?
- What does attendance look like in my courses?
- What type of activity happens in Canvas?
- What’s the usage of my LTI tools?
- What is the risk assessment of active students?
- How has risk for active students changed over time?
- How many courses require attention?
- What factors contribute to risk?
- How did the risk status change over time?
- How did my intervention affect risk?

1. Which of my students are at risk?
2. Why are they at risk?
3. What can I do about it?
Innovating in Partnership
Data & Analytics Community

Quarterly Meetups

• Knowledge sharing
• Success Stories
• Product Discussions

Other Opportunities to Collaborate

• Local Community Groups
• Global connections
• Learning Analytics collaboration space (TBD)
Thank you!