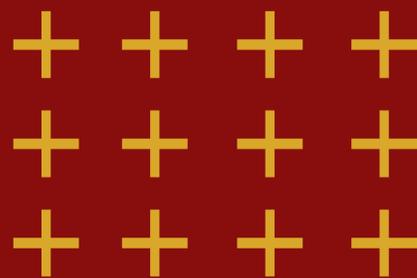


Slate Demo Series

Part 3 - Swipe Tracking in Slate



Presenter

Courtney

- + **Assistant Director of Student Success**
Implementations, Carnegie
- + **6 years of Slate experience**
- + **The Confident and Enthusiastic Thrill-Seeker**



Today's Goal

Final part of a three part series on **swipe tracking in Slate**. Today, we'll focus on querying the data.

+ today's agenda

1. What are we querying
2. Admin Updates
3. Build one out together

1

What are we querying

Querying

The difference between the created timestamp (checked in) and the updated timestamp (checked out)

Term	Status	Checked-In Time	Checked Out time	Admin Update	Time Spent (hours)	Time Spent (minutes)	Referrer
Add New							
Fall 2024	Checked In	01-10-2025 08:55 AM	Still checked in	N/A		0	Library Study Hall
Fall 2024	Checked Out	01-08-2025 04:28 PM	01-08-2025 04:37 PM	N/A	.15	9	Library Study Hall
Fall 2024	Checked Out	12-31-2024 01:29 PM	12-31-2024 01:48 PM	N/A	.32	19	Library Study Hall

Edit

Difference between the created timestamp (checked in) and the updated timestamp (checked out)

Calculated to be displayed in minutes and hours

Admin Update

Term	Status	Checked-In Time	Checked Out time	Admin Update	Time Spent (hours)	Time Spent (minutes)	Referrer
Add New							
Fall 2024	Checked In	01-08-2025 04:26 PM		79	1.32	79	Library Study Hall
Fall 2024	Checked Out	12-31-2024 01:29 PM	12-31-2024 01:48 PM	N/A	.32	19	Library Study Hall

Study Hall Widget Prev [Next](#) X

Status

Admin Update (Minutes)

Form

Term

2

Cumulative Querying

Cumulative Querying

- Dashboard
- Timeline
- Profile
- Materials
- Academic
- Schedule
- Notes
- Early Alerts
- Swipe Tracking**
- Registration History

Cumulative Hours: 3.65
 Term Hours: 3.65
 Last 7 Days: .12



Term	Status	Checked-In Time	Checked Out time	Admin Update	Time Spent (hours)	Time Spent (minutes)	Referrer
Add New							
Fall 2024	Checked Out	01-07-2025 01:19 PM	01-07-2025 01:26 PM	N/A	.12	7	Library Study Hall
Fall 2024	Checked Out	09-16-2024 02:55 PM		65	1.08	65	Library Study Hall
Fall 2024	Checked Out	09-16-2024 02:54 PM		92	1.53	92	Library Study Hall
Fall 2024	Checked Out	09-16-2024 02:51 PM		55	.92	55	Library Study Hall

Edit

Export Breakdown

- Top layer - formula that adds admin + non-admin time together
- Admin export
 - Layer one - total minutes/60 (to calculate hours)
 - Layer two - aggregate sum of all admin update minutes
- Non-Admin export
 - Top layer - total minutes/60 (to calculate hours)
 - Layer two - aggregate sum of minutes, filtering for rows that do not contain an admin update
 - Layer three - datediff formula to calculate the minutes between updated and created timestamps

Admin Export

The image displays three overlapping 'Edit Part' dialog boxes, illustrating the configuration of a subquery export. The first dialog (left) shows the top layer configuration with the formula `@admin + @not-admin` highlighted in a red box. The second dialog (middle) shows the subquery configuration with the name `admin` and formula `@minutes/60` highlighted in blue boxes. The third dialog (right) shows the subquery configuration with the name `minutes`, aggregate function `Sum`, and filter `Swipe Tracking Admin Update` highlighted in green boxes. Arrows indicate the flow of data from the top layer formula to the subquery name and formula, and from the subquery name and formula to the final subquery configuration.

Dialog 1 (Left):

- Status: Active
- Name: Cumulative Hours
- Source: Subquery Export
- Type: Dependent subquery
- Output: Formula
- Row Offset: 1
- Row Limit: []
- Formula: `@admin + @not-admin` (Top Layer)
- Exports: admin, not-admin
- Matching Rows: 51
- Preview Results: []
- Filters: Filter, NOT
- Sorts: Sort

Dialog 2 (Middle):

- Status: Active
- Name: admin
- Source: Nested Subquery Export / Cumulative Hours
- Type: Dependent subquery
- Output: Formula
- Row Offset: 1
- Row Limit: []
- Formula: `@minutes/60`
- Exports: minutes
- Filters: Filter, NOT
- Sorts: Sort
- Groups: Group

Dialog 3 (Right):

- Status: Active
- Name: minutes
- Source: Nested Subquery Export / admin / Cumulative Hours
- Type: Dependent subquery
- Output: Aggregate
- Aggregate: Sum
- Format Mask: []
- Exports: Swipe Tracking Admin Update
- Filters: Filter, NOT, (, OR,), Join
- Join: Swipe Tracking
- Groups: Group

Not-Admin Export

The image displays four overlapping 'Edit Part' windows in a data tool, illustrating the configuration of a query for 'Not-Admin Export'. The windows are arranged in a sequence from left to right, showing the configuration of a query.

- Window 1 (Leftmost):** Name: Cumulative Hours. Source: Subquery Export. Type: Dependent subquery. Output: Formula. Formula: `@admin + @not-admin`. Exports: admin, not-admin. A pink label 'Top Layer' points to the formula field.
- Window 2:** Name: not-admin. Source: Nested Subquery Export. Type: Dependent subquery. Output: Formula. Formula: `@minutes/60`. Exports: minutes.
- Window 3:** Name: minutes. Source: Nested Subquery Export / not-admin. Type: Dependent subquery. Output: Aggregate. Aggregate: Sum. Exports: Minutes. Filters: Join Swipe Tracking.
- Window 4 (Rightmost):** Name: Minutes. Source: Nested Subquery Export / minutes / not-admin / Cumulative Hours. Type: Dependent subquery. Output: Formula. Formula: `datediff(minute, @Swipe-Tracking-Created-Date,@Swipe-Tracking-Updated-Date)`. Exports: Minutes. Filters: Join.

Arrows indicate the flow of data from the first window to the second, and from the second to the third, and from the third to the fourth.

Not-Admin Export

The image displays four overlapping 'Edit Part' windows in a data tool interface, illustrating the configuration of a 'Not-Admin Export' query. The windows are arranged from left to right, with the rightmost window being the most prominent. Arrows indicate the flow of configuration from the first window to the others.

- Window 1 (Leftmost):** Name: Cumulative Hours; Source: Subquery Export; Type: Dependent subquery; Output: Formula; Row Offset: 1; Formula: @admin + @not-admin; Exports: admin, not-admin.
- Window 2:** Name: not-admin; Source: Nested Subquery Export; Type: Dependent subquery; Output: Formula; Row Offset: 1; Formula: @minutes/60; Exports: minutes.
- Window 3:** Name: minutes; Source: Nested Subquery Export / not-admin; Type: Dependent subquery; Output: Aggregate; Aggregate: Sum; Exports: Minutes; Filters: Join Swipe Tracking; not admin.
- Window 4 (Rightmost):** Name: not admin; Source: Nested Subquery Filter / minutes / not-admin / Cumulative Hours; Type: Dependent subquery; Aggregate: Not Exists; Exports: Export, Swipe Tracking Admin Update; Filters: Filter, NOT, (, OR,), Join.

3

Instance Tracking

Instance Querying

- Dashboard
- Timeline
- Profile
- Materials
- Academic
- Schedule
- Notes
- Early Alerts
- Swipe Tracking**
- Registration History

Cumulative Hours: 3.65
 Term Hours: 3.65
 Last 7 Days: .12



Term	Status	Checked-In Time	Checked Out time	Admin Update	Time Spent (hours)	Time Spent (minutes)	Referrer
Add New							
Fall 2024	Checked Out	01-07-2025 01:19 PM	01-07-2025 01:26 PM	N/A	.12	7	Library Study Hall
Fall 2024	Checked Out	09-16-2024 02:55 PM		65	1.08	65	Library Study Hall
Fall 2024	Checked Out	09-16-2024 02:54 PM		92	1.53	92	Library Study Hall
Fall 2024	Checked Out	09-16-2024 02:51 PM		55	.92	55	Library Study Hall

Edit

Instance Querying

The image displays three overlapping 'Edit Part' dialog boxes, illustrating the configuration of a query part. The dialog boxes are arranged from left to right, showing a sequence of steps in the configuration process.

Left Dialog (Initial Configuration):

- Status: Active
- Name: Time Spent (hours)
- Source: Subquery Export
- Type: Dependent subquery
- Output: Formula
- Row Offset: 1
- Formula: @total-minutes/60
- Exports: total minutes

Middle Dialog (Coalesce Operation):

- Status: Active
- Name: total minutes
- Source: Nested Subquery Export / Time
- Type: Dependent subquery
- Output: Coalesce
- Row Offset: 1
- Exports: Swipe Tracking Admin Update, non-admin

Right Dialog (Date Difference and Filter):

- Status: Active
- Name: non-admin
- Source: Nested Subquery Export / total minutes / Time Spent (hours)
- Type: Dependent subquery
- Output: Formula
- Row Offset: 1
- Row Limit: [empty]
- Formula: datediff(minute, @Swipe-Tracking-Created-Date, @Swipe-Tracking-Updated-Date)
- Exports: Swipe Tracking Updated Date, Swipe Tracking Created Date
- Filters: not admin

Red arrows indicate the flow of configuration: one arrow points from the 'total minutes' export in the first dialog to the 'non-admin' export in the second, and another points from the 'non-admin' export in the second dialog to the 'not admin' filter in the third.

Thank You!



CarnegieHigherEd.com