

Project Rubric

Section 3: Building Interactive Dashboards and Topics

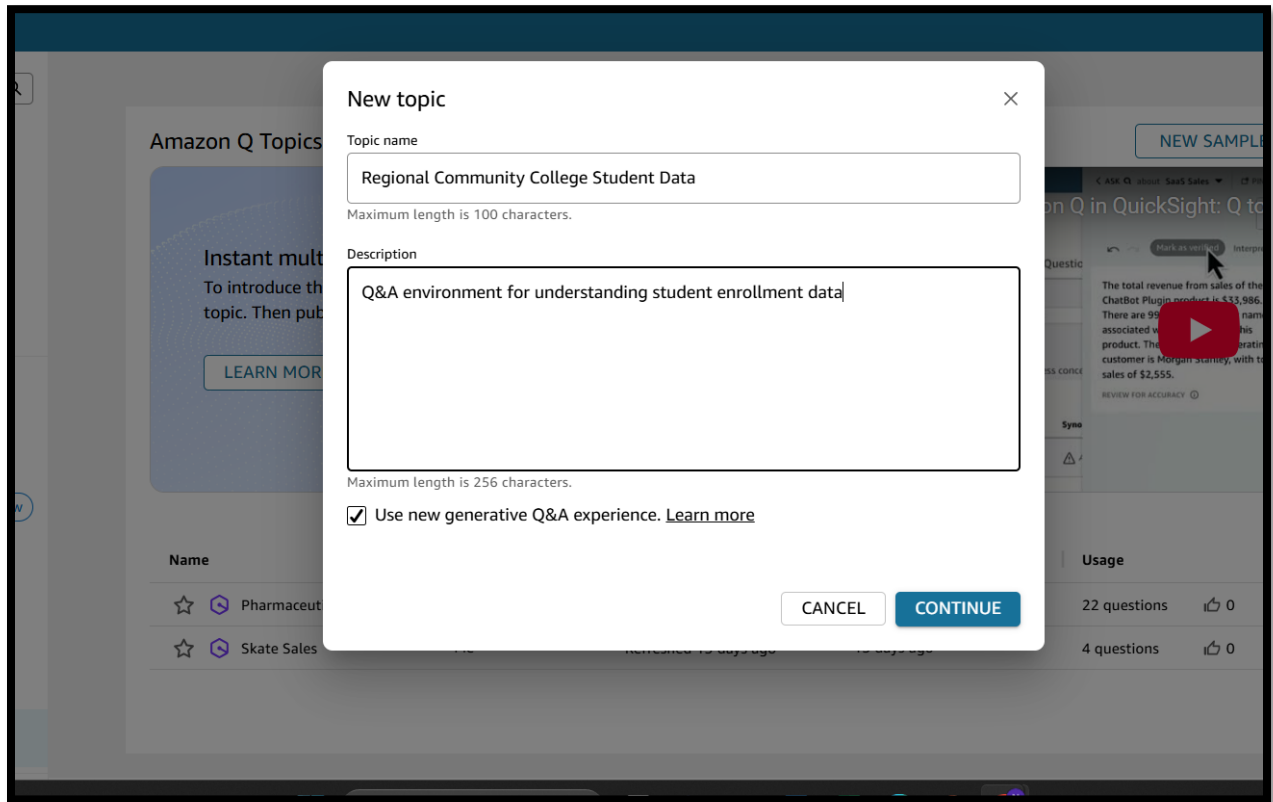


Figure 1- Creating a custom topic named Regional Community College Student Data

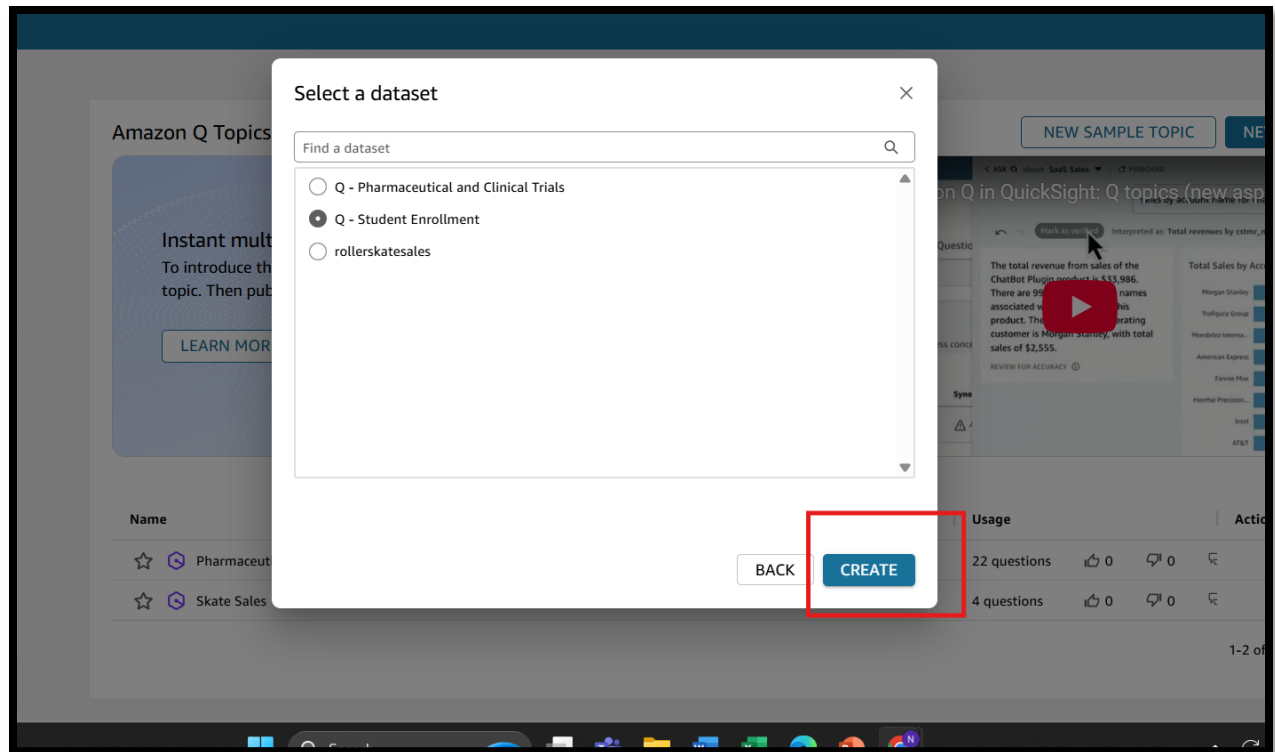


Figure 2 Selecting the Student Enrollment Dataset

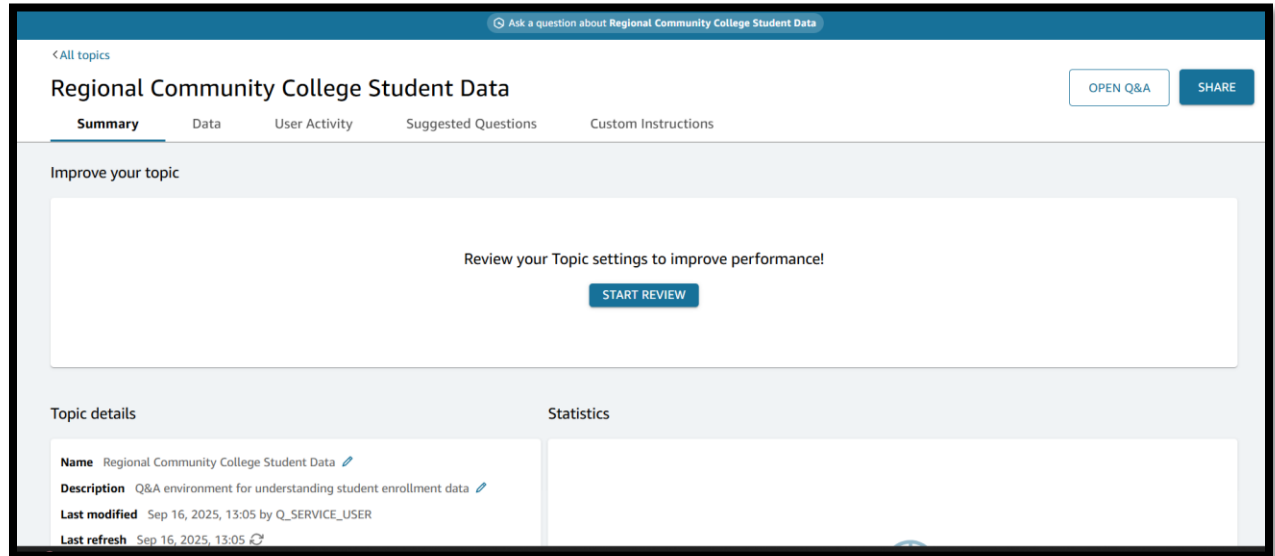


Figure 3 Topic created

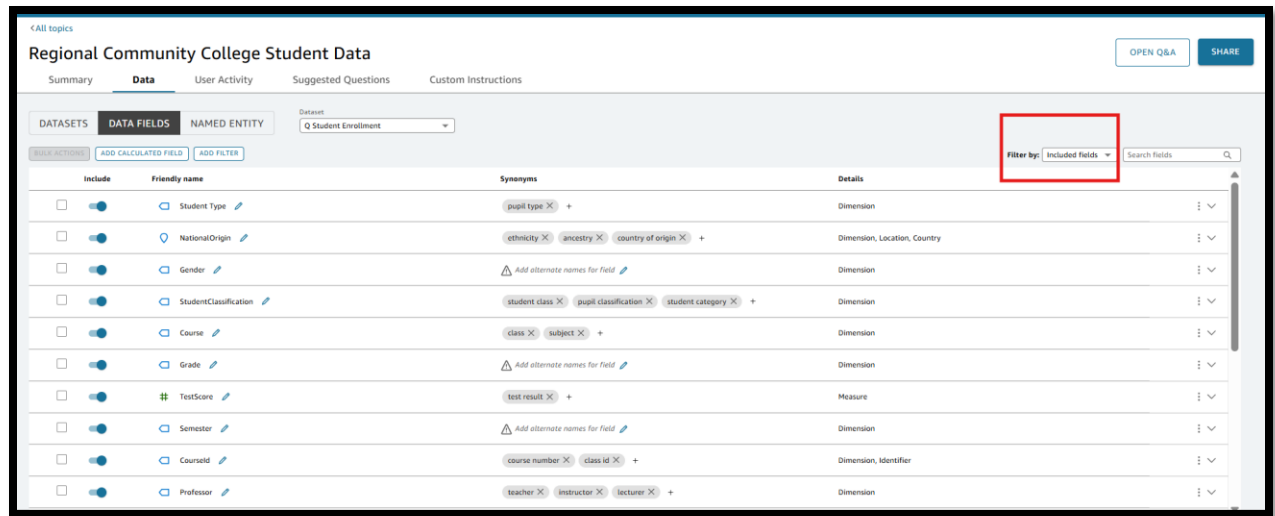


Figure 4 Including the Data fields as per the instruction

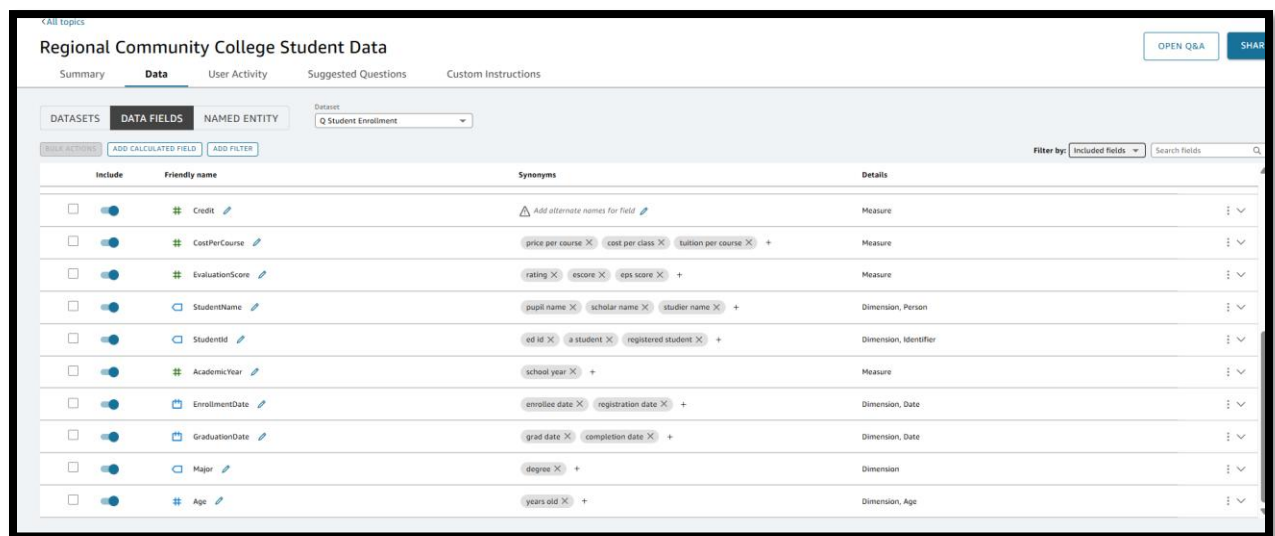


Figure 5 Display of the included fields

QuickSight Regional Community College Student Data

Learn more about named entities CLOSE OPEN Q&A SAVE

Data

Dataset: Q Student Enrollment

Search fields

- City
- CostPerCourse
- Course
- Courseld
- Credit
- DOB
- Email
- EnrollmentDate
- EvaluationScore
- Gender
- Grade
- GraduationDate
- Major
- Mobile
- NationalOrigin
- Professor
- Semester
- State
- Student Type
- StudentClassification
- StudentId
- StudentName
- TestScore
- ZipCode

Named entity

Entity name: Student Details

Description: Information about enrolled students

Synonyms: Add alternate names for named entity

FIELD RANKING (14)

- #1 StudentName
- #2 Semester
- #3 Course
- #4 TestScore
- #5 Grade
- #6 StudentClassification
- #7 Student Type
- #8 Major
- #9 Gender
- #10 NationalOrigin
- #11 Credit
- #12 EnrollmentDate
- #13 GraduationDate
- #14 StudentId

Student Details

Sync table view with field ranking

| Stud... | Sem... | Cour... | Test... | Grade | Stud... | Stud... | Major | Gen... | Natl... | Cred... | Enro... |
|---------|--------|---------------|---------|-------|---------|--------------|-------------|--------|--------------|---------|------------|
| Low... | Fall | Accounting | 99 | A | Senior | Adult Con... | Computer... | Female | United St... | 3 | 2019-08... |
| Low... | Fall | Big Data | 78 | B+ | Senior | Adult Con... | Computer... | Female | United St... | 4 | 2019-08... |
| Low... | Fall | Communi... | 91 | A | Senior | Adult Con... | Computer... | Female | United St... | 4 | 2019-08... |
| Low... | Fall | Communi... | 91 | A | Senior | Adult Con... | Computer... | Female | United St... | 4 | 2024-07... |
| Low... | Fall | Environm... | 84 | B | Senior | Adult Con... | Computer... | Female | United St... | 4 | 2019-08... |
| Low... | Fall | Investment | 88 | B+ | Senior | Adult Con... | Computer... | Female | United St... | 4 | 2019-08... |
| Low... | Fall | Modern H... | 80 | C+ | Senior | Adult Con... | Computer... | Female | United St... | 3 | 2019-08... |
| Low... | Fall | Statistics | 80 | B | Senior | Adult Con... | Computer... | Female | United St... | 2 | 2019-08... |
| Low... | Spring | Commert... | 87 | B+ | Senior | Adult Con... | Computer... | Female | United St... | 4 | 2019-08... |
| Low... | Spring | Counselin... | 99 | A | Senior | Adult Con... | Computer... | Female | United St... | 3 | 2019-08... |
| Low... | Spring | Data Visa... | 80 | C+ | Senior | Adult Con... | Computer... | Female | United St... | 2 | 2019-08... |
| Low... | Spring | Financial ... | 88 | B+ | Senior | Adult Con... | Computer... | Female | United St... | 2 | 2019-08... |
| Low... | Spring | Financial ... | 88 | B+ | Senior | Adult Con... | Computer... | Female | United St... | 2 | 2024-02... |
| Low... | Spring | General B... | 85 | B | Senior | Adult Con... | Computer... | Female | United St... | 4 | 2019-08... |

This is a sample view of the named entity data. Complete data will be available to view in Q and used to answer questions.

Figure 6 Creating the named entity Student Details with description and field rankings

QuickSight Regional Community College Student Data

Learn more about named entities CLOSE OPEN Q&A SAVE

Data

Dataset: Q Student Enrollment

Search fields

- AcademicYear
- Address
- Age
- City
- CostPerCourse
- Course
- Courseld
- Credit
- DOB
- Email
- EnrollmentDate
- EvaluationScore
- Gender
- Grade
- GraduationDate
- Major
- Mobile
- NationalOrigin

Named entity

Entity name: Course Details

Description: Information about course

Synonyms: Add alternate names for named entity

FIELD RANKING (6)

- #1 Course
- #2 Professor
- #3 CostPerCourse
- #4 AcademicYear
- #5 Semester
- #6 Courseld

Course Details

Sync table view with field ranking

| Course | Professor | CostPerCo... | AcademicY... | Semester | Courseld |
|--------------------|-----------|--------------|--------------|----------|---------------------|
| Accounting | Tim | 1935 | 2019 | Fall | 2019 Fall Accou... |
| Big Data | Jason | 2496 | 2019 | Fall | 2019 Fall Big Data |
| Commercial Law | Sue | 2540 | 2019 | Fall | 2019 Fall Comm... |
| Communication | Antony | 2536 | 2019 | Fall | 2019 Fall Comm... |
| Communication | Antony | 2536 | 2024 | Fall | 2019 Fall Comm... |
| Counseling Psyc... | Jimmy | 1812 | 2019 | Fall | 2019 Fall Couns... |
| Data Visualization | Kim | 1244 | 2019 | Fall | 2019 Fall Data V... |
| Environmental E... | Jill | 2856 | 2019 | Fall | 2019 Fall Enviro... |
| Financial Modeling | Cindy | 1298 | 2019 | Fall | 2019 Fall Financ... |
| Financial Modeling | Cindy | 1298 | 2024 | Fall | 2019 Fall Financ... |
| General Biology | Peter | 2812 | 2019 | Fall | 2019 Fall Gener... |
| Investment | Tim | 2404 | 2019 | Fall | 2019 Fall Invest... |
| Modern History | Tony | 2106 | 2019 | Fall | 2019 Fall Moder... |

Figure 7 Creating the named entity Course Details with field rankings and description

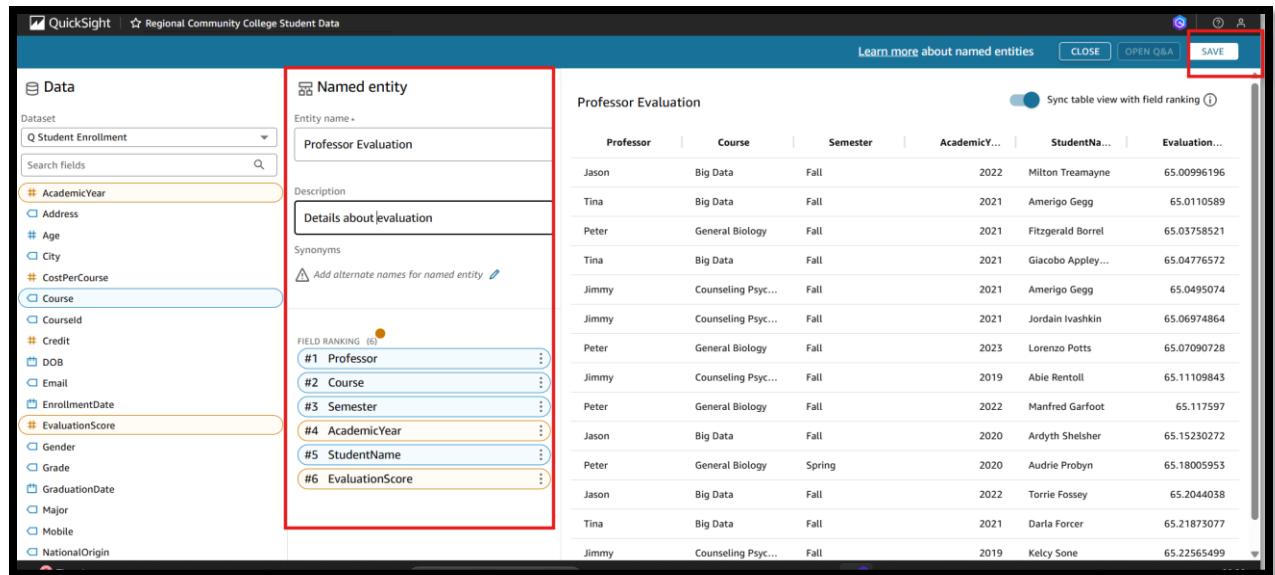


Figure 8 Creating the named entity Professor evaluation with description and Field rankings

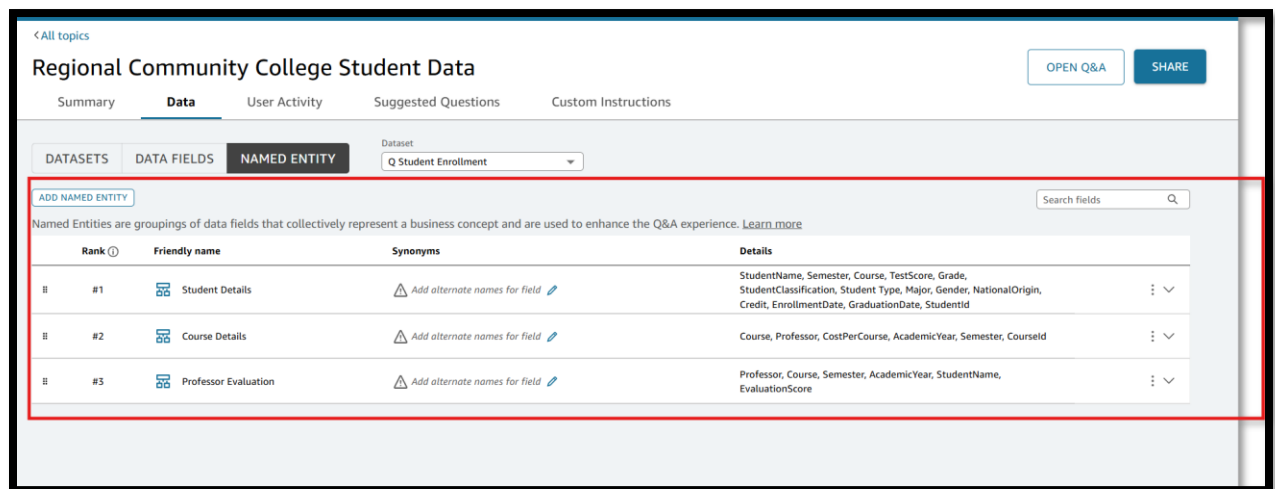


Figure 9 Display of Named Entities under Data Tab

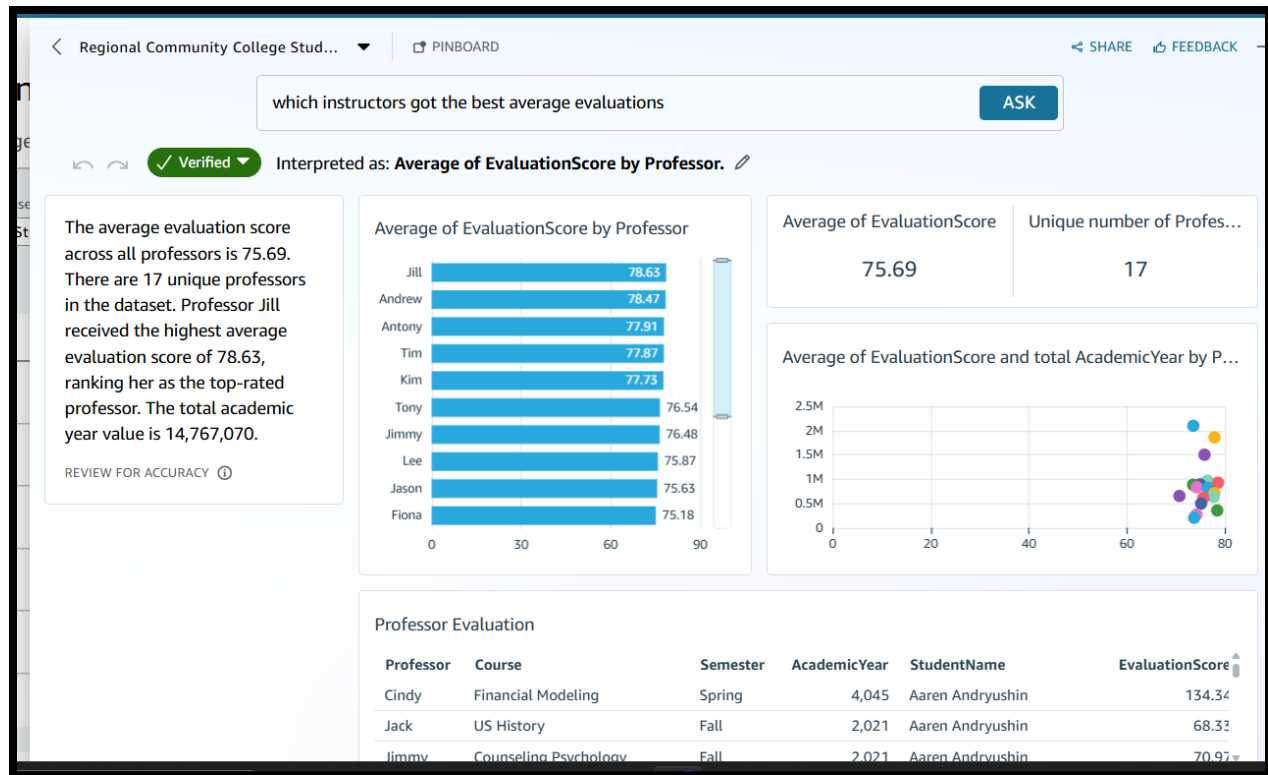


Figure 10 Prompting Amazon Q to determine which instructors got the best average evaluations.

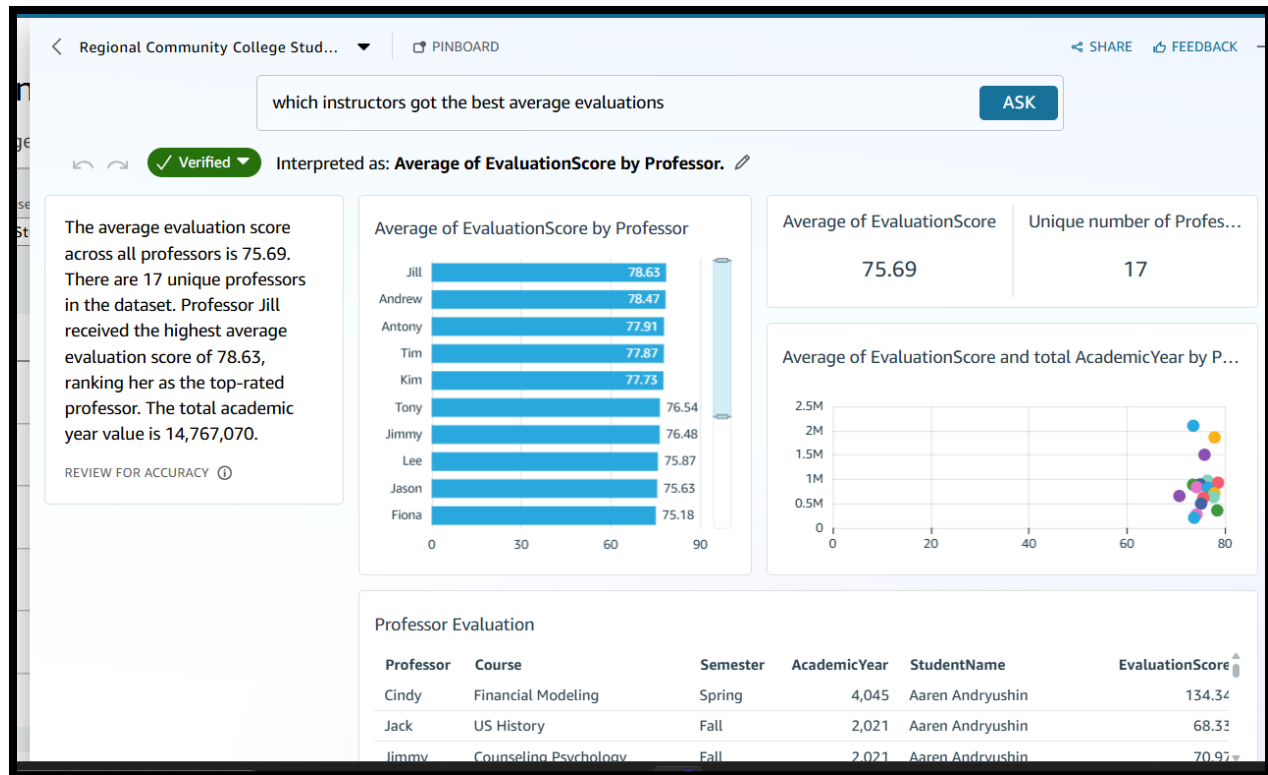


Figure 11 Marking the answer as verified

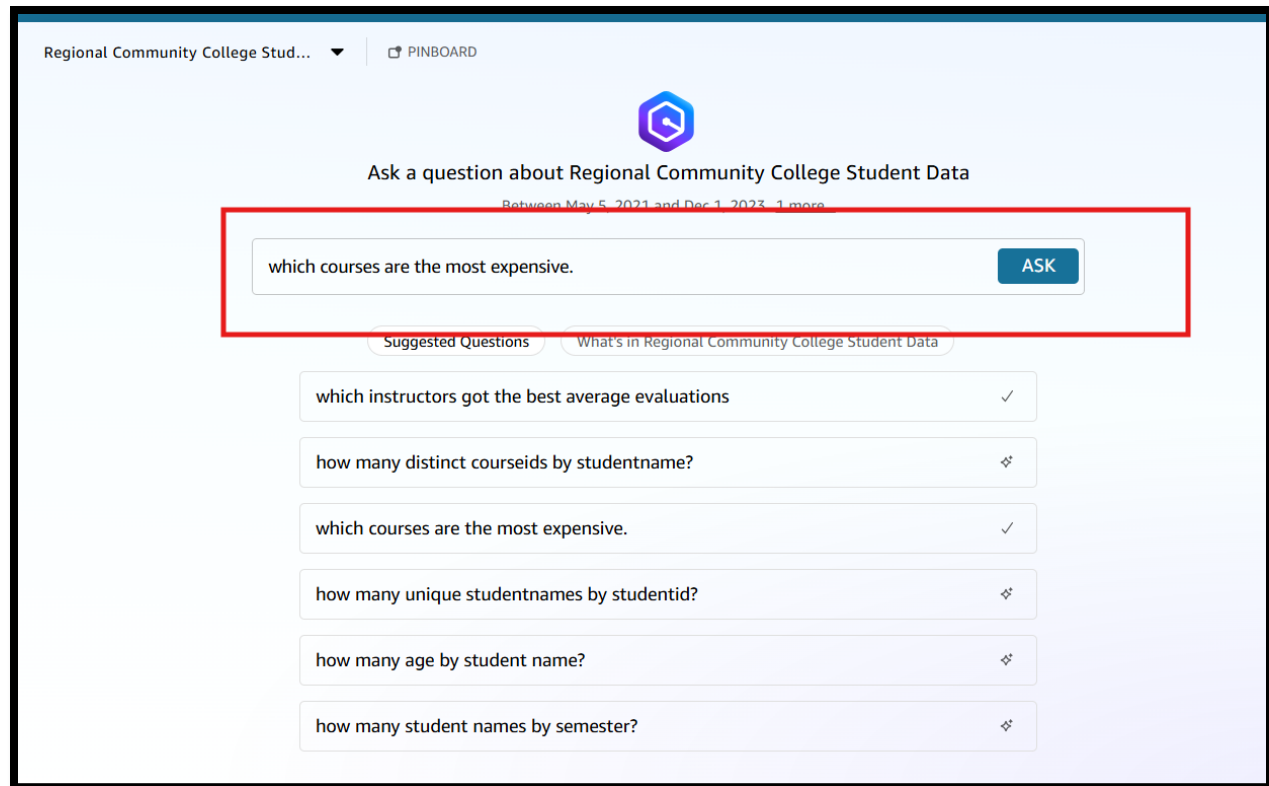


Figure 12 Prompting Amazon Q to determine which courses are the most expensive

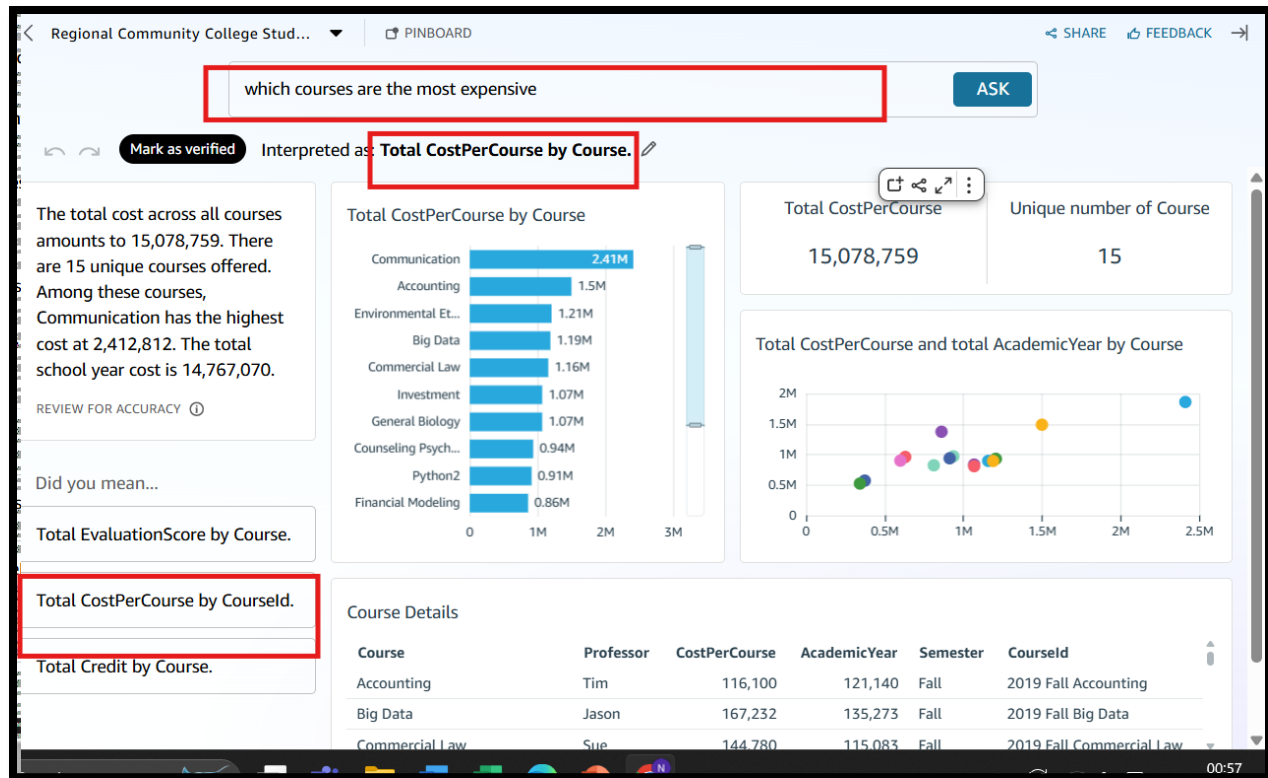


Figure 13 Answer getting generated with Visuals

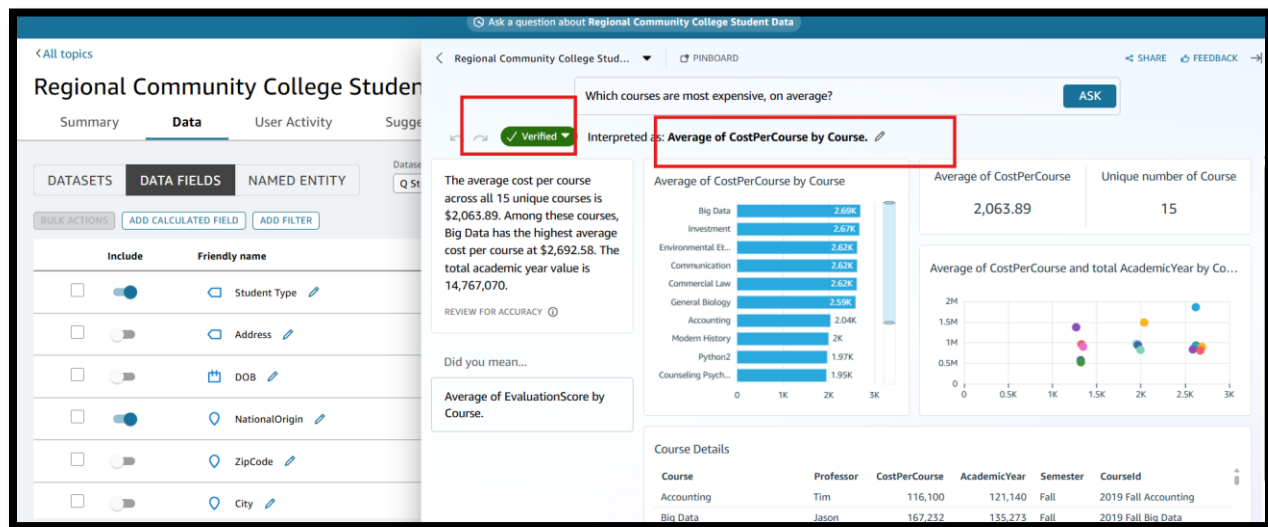


Figure 14 Changing the Interpretation to Average of CostperCourse by Course and Marking it verified

< All topics

Regional Community College Student Data

Summary Data User Activity **Suggested Questions** Custom Instructions

VERIFIED AI GENERATED

Responses that were verified or manually linked to an existing visual. [Learn more](#)

[ADD CUSTOM MESSAGE](#)

| Question | Asked ↓ | Validated by | Validated at |
|---|---------|---------------------------------|--------------|
| which courses are the most expensive VIEW | 0 | AuthorPro_11326485@vocareum.com | 17 hours ago |
| which instructors got the best average evaluations VIEW | 0 | AuthorPro_11326485@vocareum.com | 17 hours ago |
| which courses are the most expensive. VIEW | 0 | AuthorPro_11326485@vocareum.com | 17 hours ago |
| Which courses are most expensive, on average? VIEW | 0 | AuthorPro_11326485@vocareum.com | a minute ago |

Figure 15 Confirming Prompted questions which are verified appearing under Verified section

Regional Community College Student Data

Summary Data User Activity **Suggested Questions** Custom Instructions

VERIFIED **AI GENERATED**

Suggested questions generated based on the enabled data fields in this topic.

[OPTIONS](#) ▼

| Question | Asked ↓ |
|---|---------|
| how many distinct semesters for every student name? VIEW | 0 |
| what are the bottom 5 professors by total cost per course? VIEW | 0 |
| total academic year by studentid VIEW | 0 |
| how many professors by student name? VIEW | 0 |
| how many unique courseids by professor? VIEW | 0 |

Figure 16 Lets pick some questions from AI GENERATED SECTION

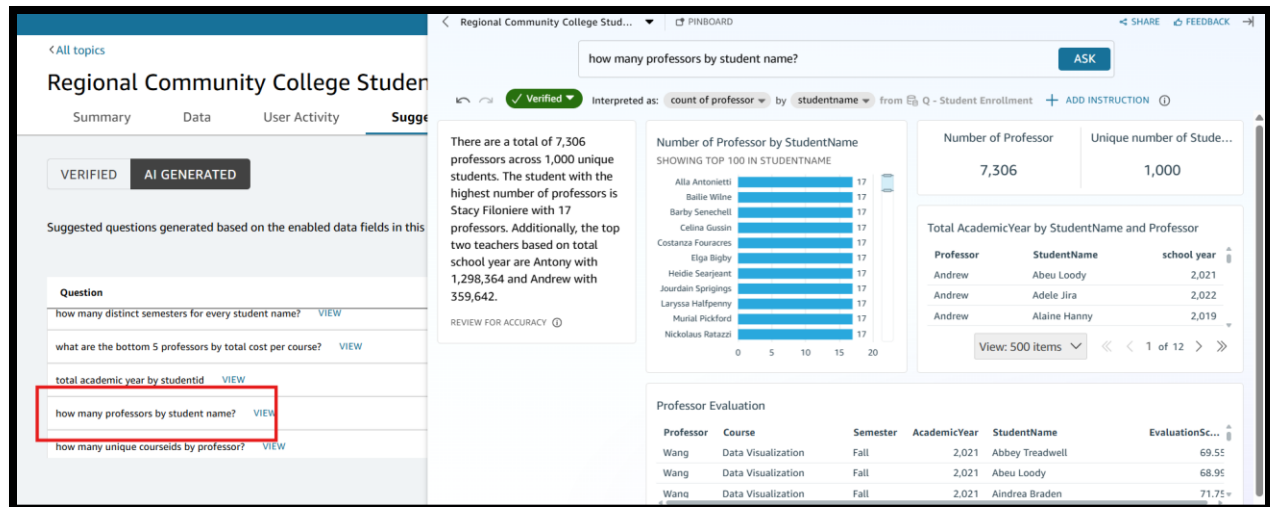


Figure 17 Picking the AI generated question how many professors by student name and verifying the answer

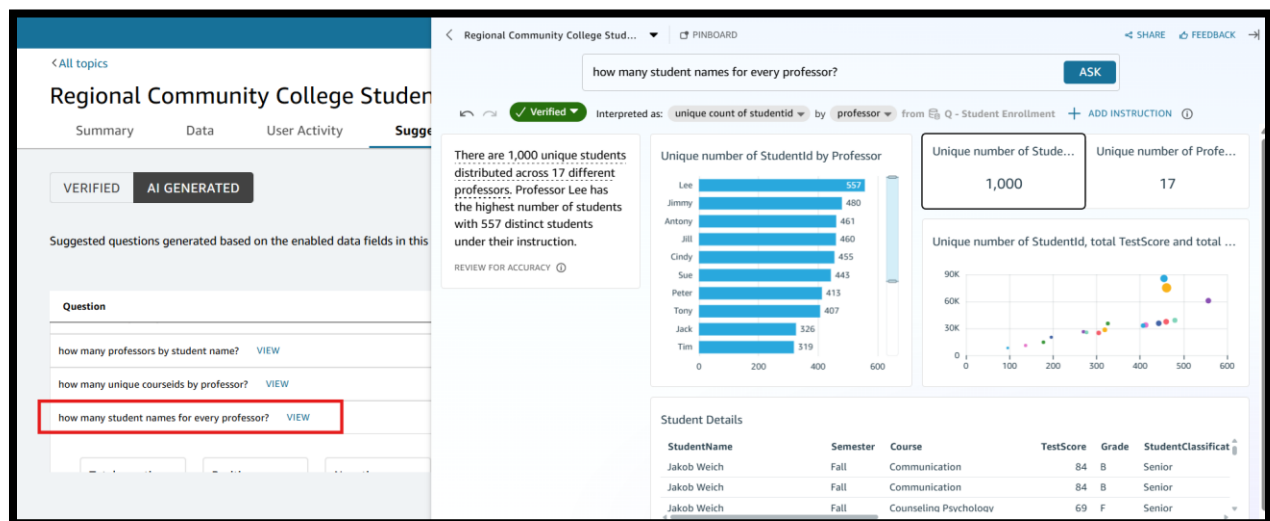


Figure 18 Picking the AI generated question how many student for every professor and verifying the answer

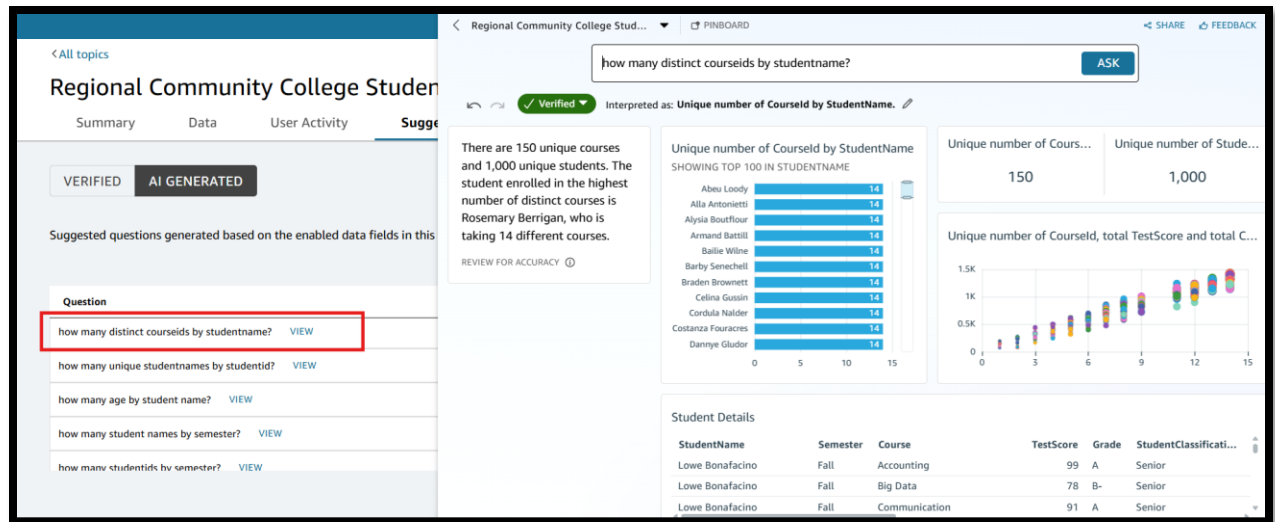


Figure 19 Picking the AI generated question how many distinct course ids by student name and verifying the answer

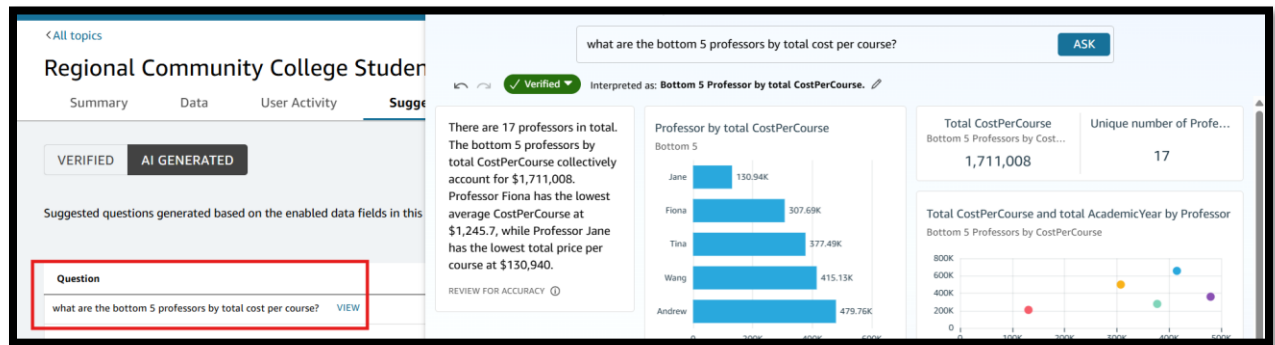


Figure 20 Picking the AI generated question what are the bottom 5 professors with lowest price per course and verifying the answer

| Regional Community College Student Data | | | |
|---|--------------|---------------------------------|---------------------|
| Summary | Data | User Activity | Suggested Questions |
| VERIFIED | AI GENERATED | | |
| Responses that were verified or manually linked to an existing visual. Learn more | | | |
| ADD CUSTOM MESSAGE | | | |
| Question | Asked | Validated by | Validated at |
| how many distinct courseids by studentname? VIEW | 2 | AuthorPro_11326485@vocareum.com | 6 minutes ago |
| which courses are the most expensive VIEW | 0 | AuthorPro_11326485@vocareum.com | 17 hours ago |
| how many professors by student name? VIEW | 0 | AuthorPro_11326485@vocareum.com | 13 minutes ago |
| what are the bottom 5 professors by total cost per course? VIEW | 0 | AuthorPro_11326485@vocareum.com | 2 minutes ago |
| which instructors got the best average evaluations VIEW | 0 | AuthorPro_11326485@vocareum.com | 18 hours ago |
| which courses are the most expensive. VIEW | 0 | AuthorPro_11326485@vocareum.com | 17 hours ago |
| Which courses are most expensive, on average? VIEW | 0 | AuthorPro_11326485@vocareum.com | 19 minutes ago |
| how many student names for every professor? VIEW | 0 | AuthorPro_11326485@vocareum.com | 9 minutes ago |

Figure 21 AI generated questions which are marked as verified also populated to VERIFIED SECTION