

## Project Rubric

### Section 3: Building Interactive Dashboards and Topics

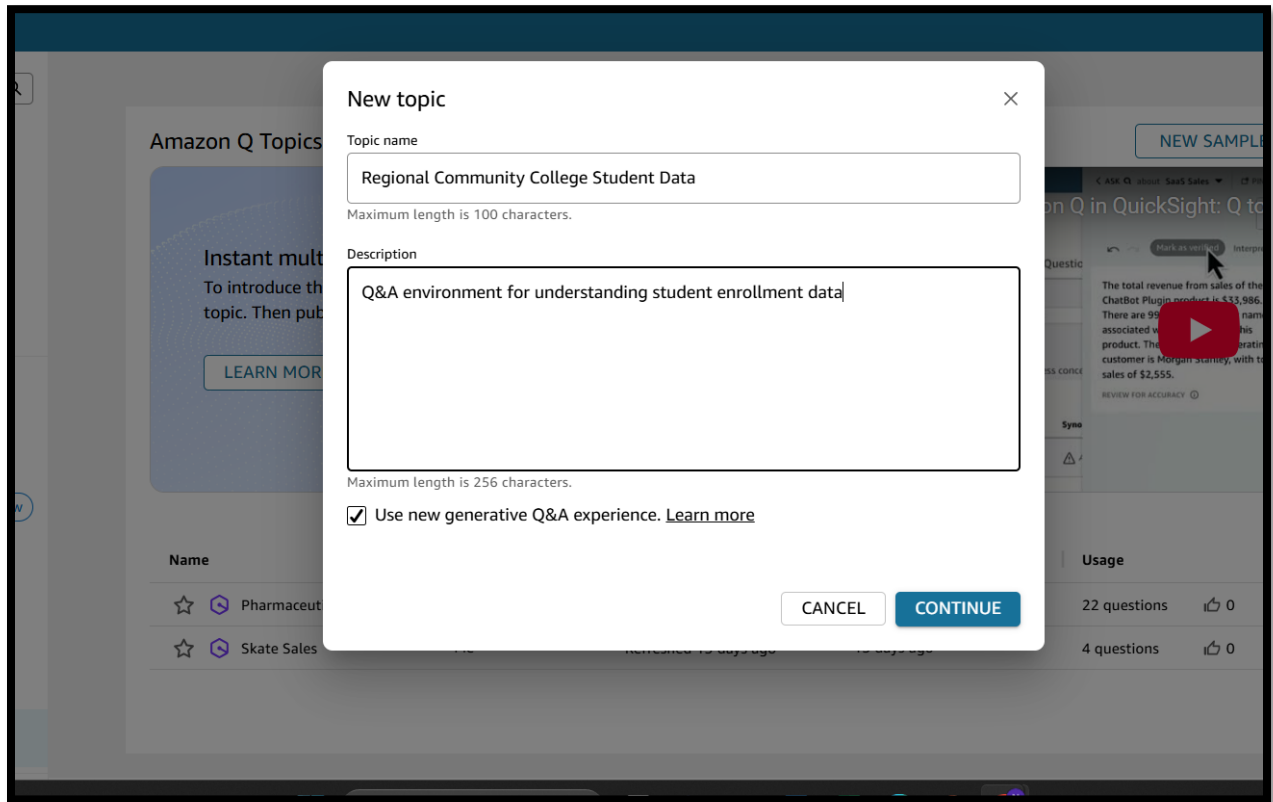


Figure 1- Creating a custom topic named Regional Community College Student Data

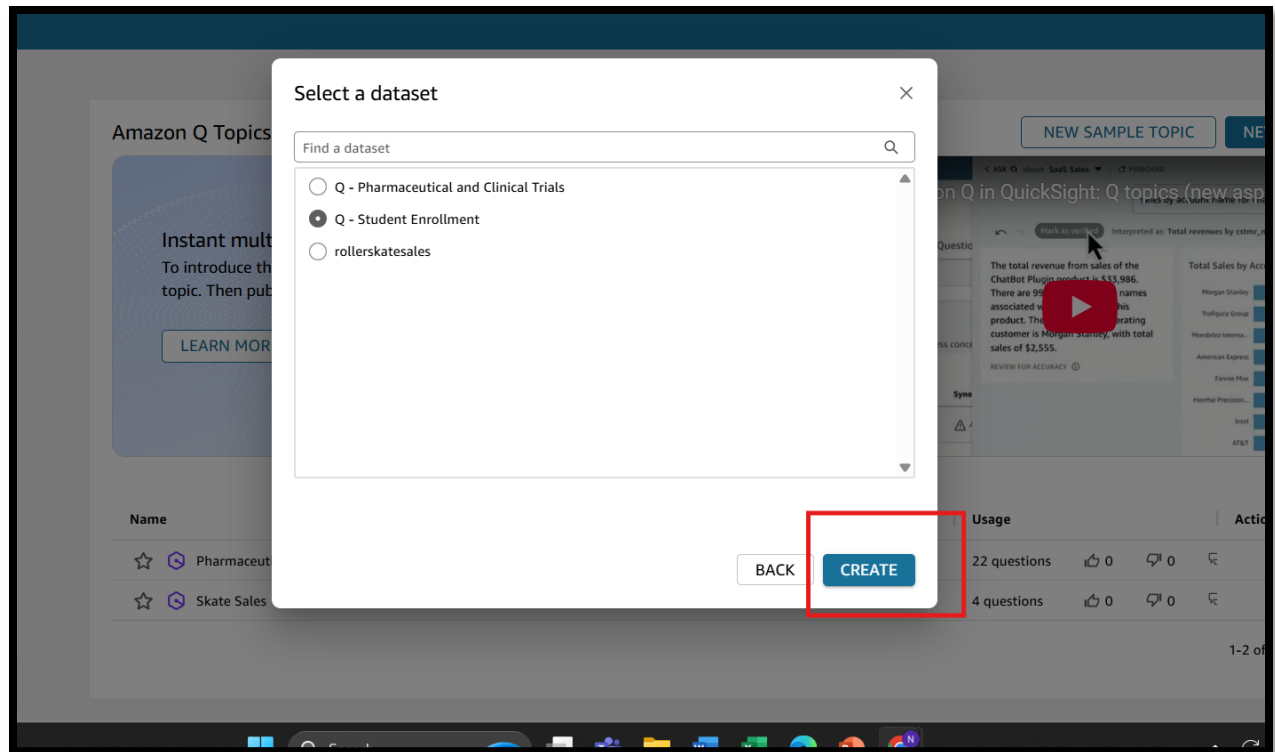


Figure 2 Selecting the Student Enrollment Dataset

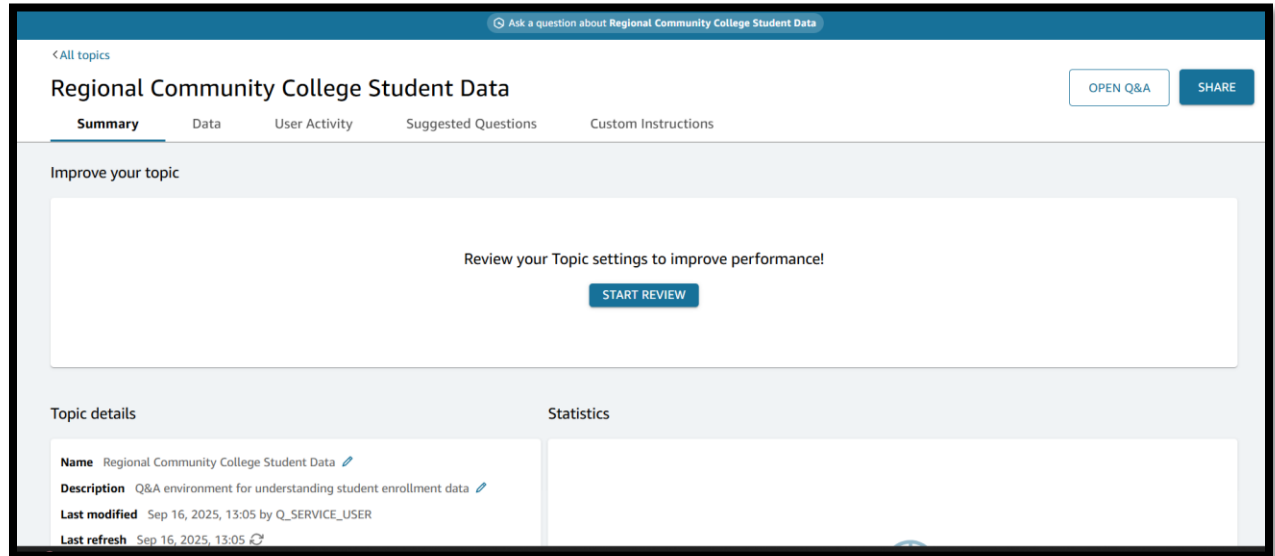


Figure 3 Topic created

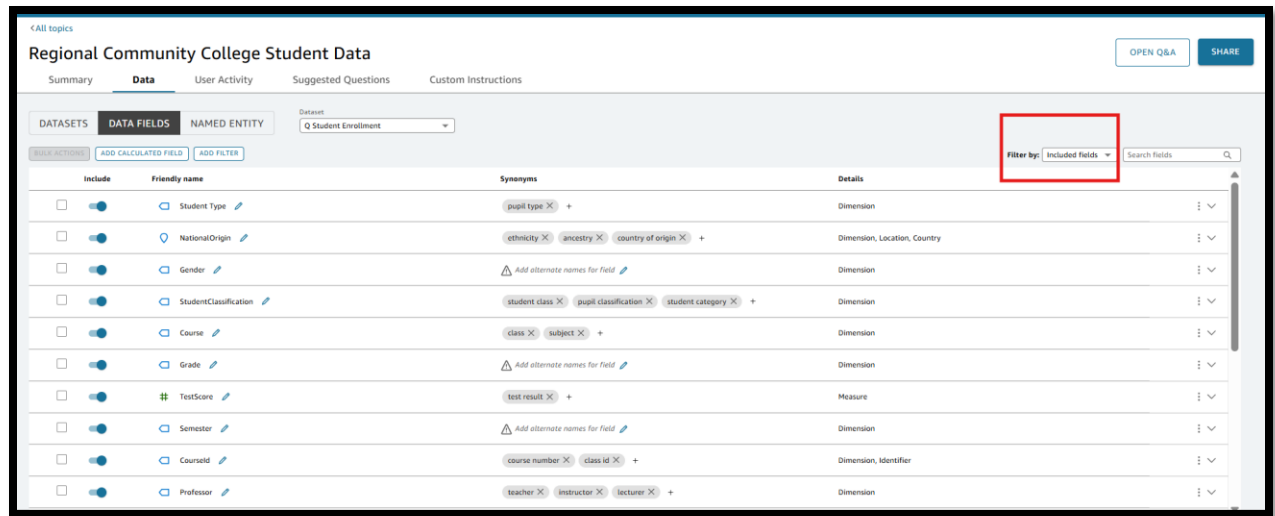


Figure 4 Including the Data fields as per the instruction

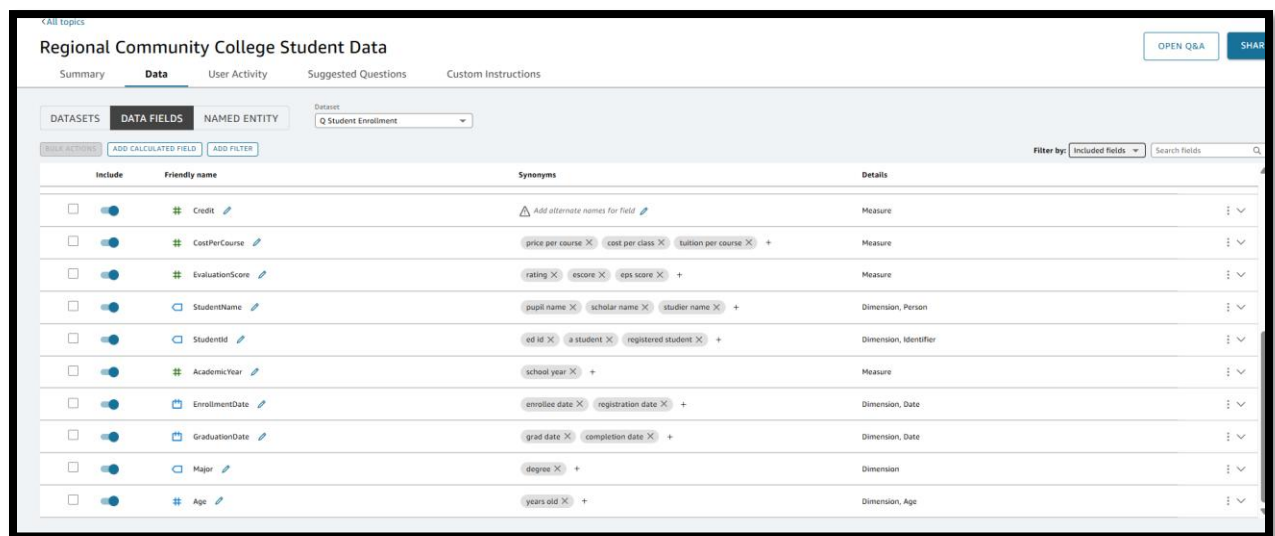


Figure 5 Display of the included fields

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

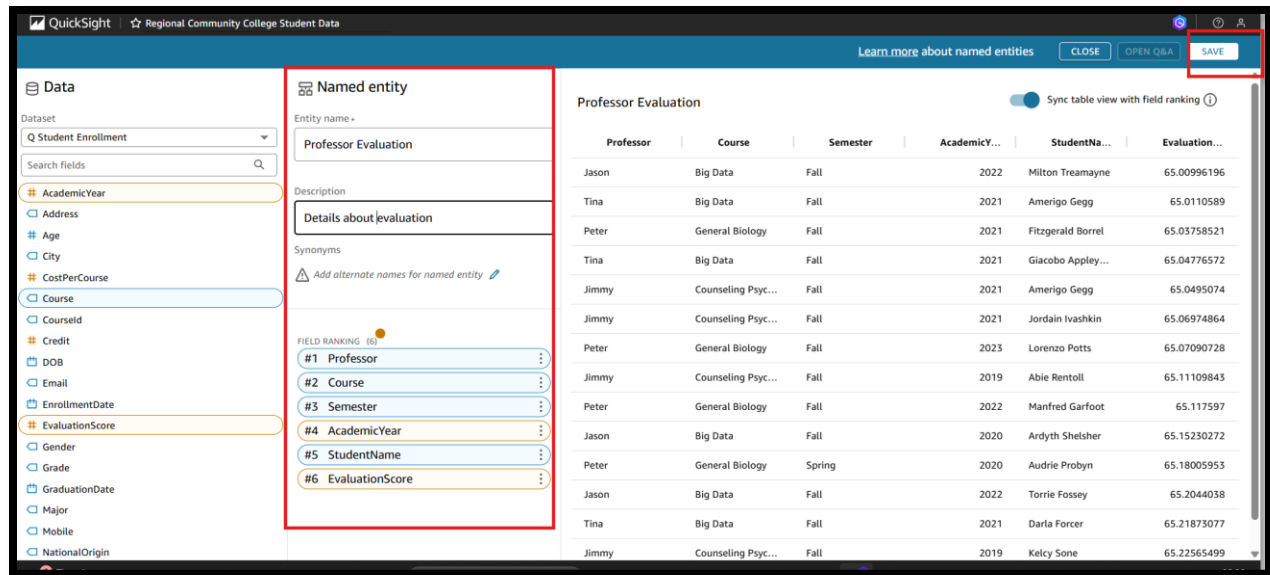


Figure 8 Creating the named entity Professor evaluation with description and Field rankings

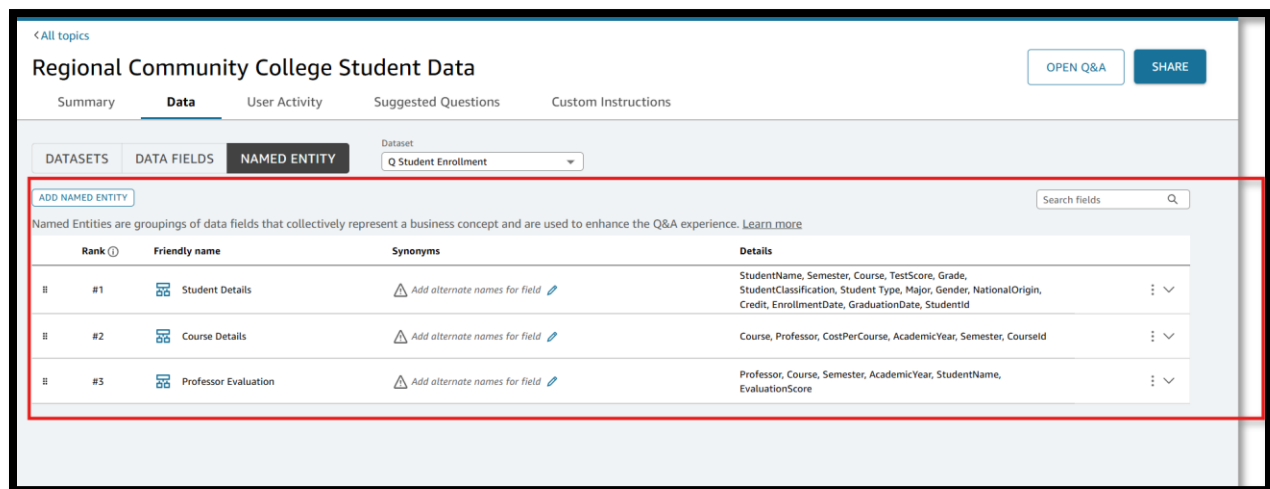


Figure 9 Display of Named Entities under Data Tab

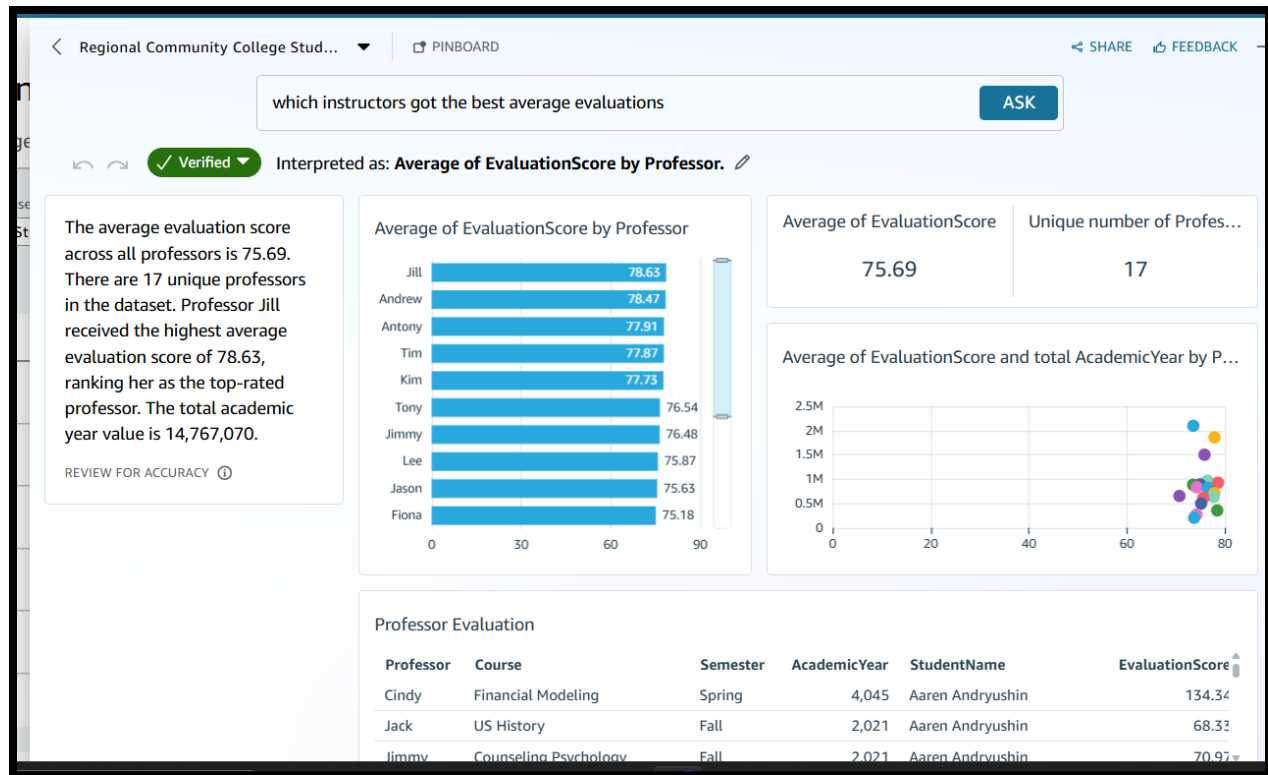


Figure 10 Prompting Amazon Q to determine which instructors got the best average evaluations.

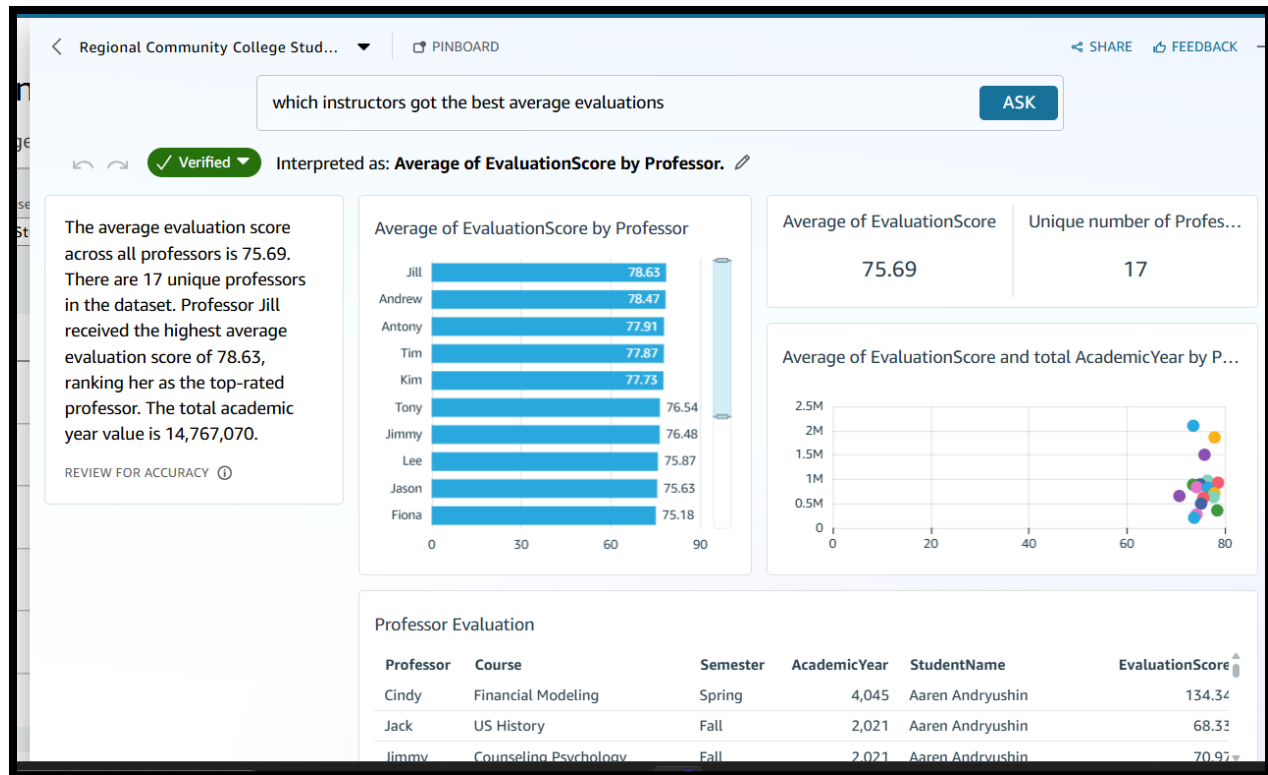


Figure 11 Marking the answer as verified

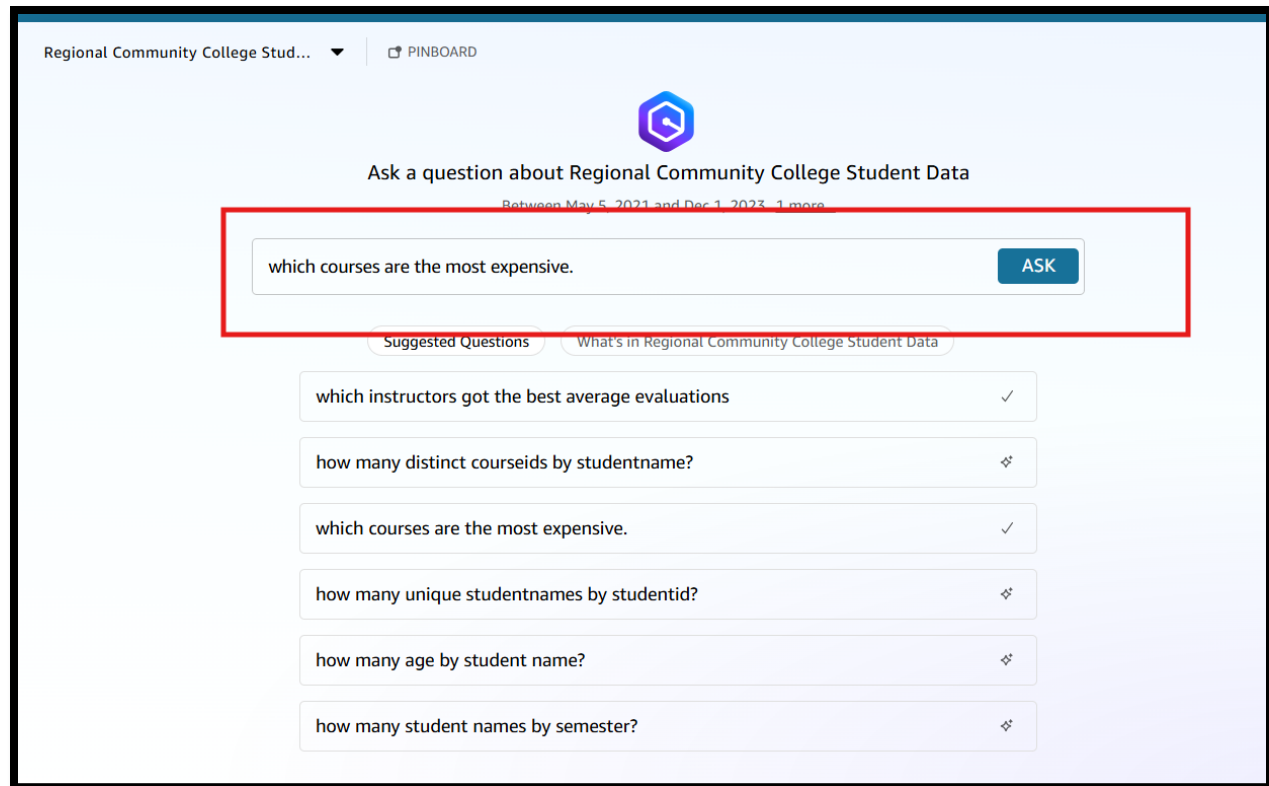


Figure 12 Prompting Amazon Q to determine which courses are the most expensive



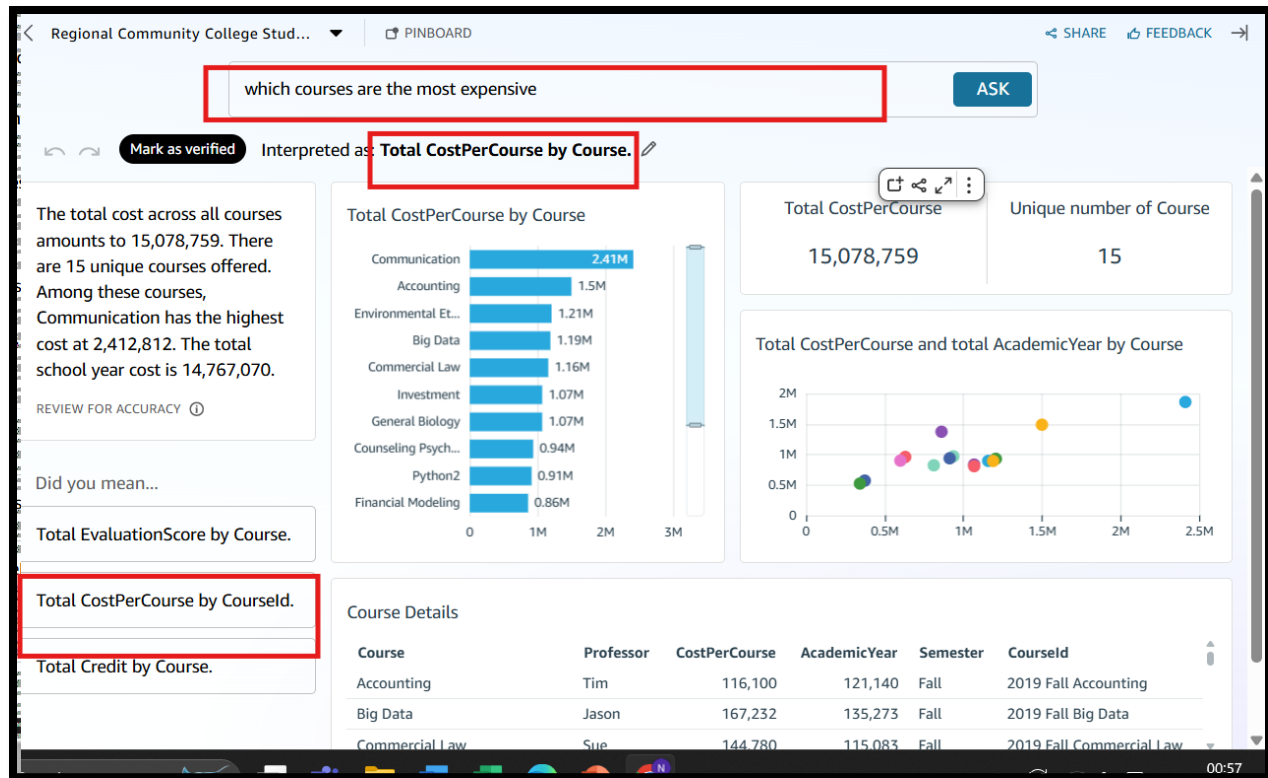


Figure 13 Answer getting generated with Visuals

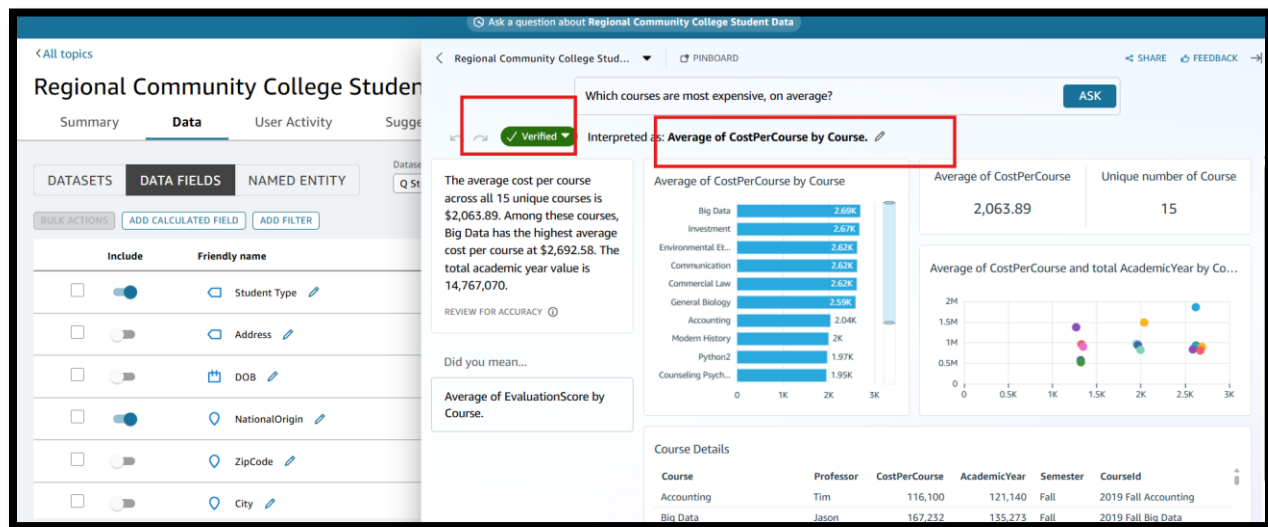


Figure 14 Changing the Interpretation to Average of CostperCourse by Course and Marking it verified

[All topics](#)

Regional Community College Student Data

OPEN Q&A

SHARE

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 <a href="#">VIEW</a>	0	AuthorPro_11326485@vocareum.com	17 hours ago
which instructors got the best average evaluations <a href="#">VIEW</a>	0	AuthorPro_11326485@vocareum.com	17 hours ago
which courses are the most expensive. <a href="#">VIEW</a>	0	AuthorPro_11326485@vocareum.com	17 hours ago
Which courses are most expensive, on average? <a href="#">VIEW</a>	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

OPEN Q&A

SHARE

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? <a href="#">VIEW</a>	0
what are the bottom 5 professors by total cost per course? <a href="#">VIEW</a>	0
total academic year by studentid <a href="#">VIEW</a>	0
how many professors by student name? <a href="#">VIEW</a>	0
how many unique courseids by professor? <a href="#">VIEW</a>	0

Figure 16 Lets pick some questions from AI GENERATED SECTION

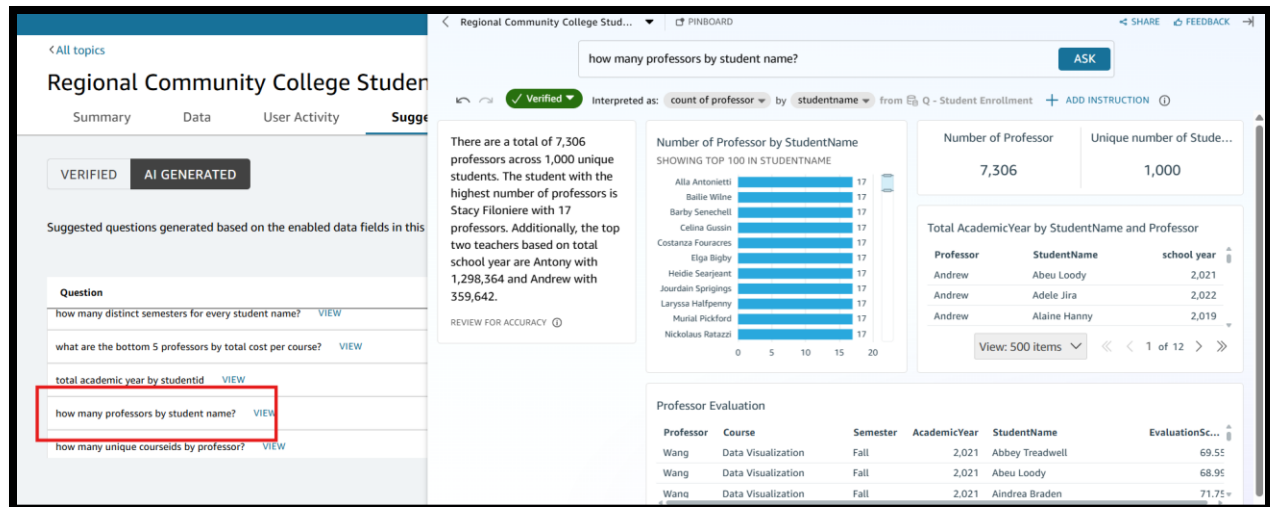


Figure 17 Picking the AI generated question how many professors by student name and verifying the answer

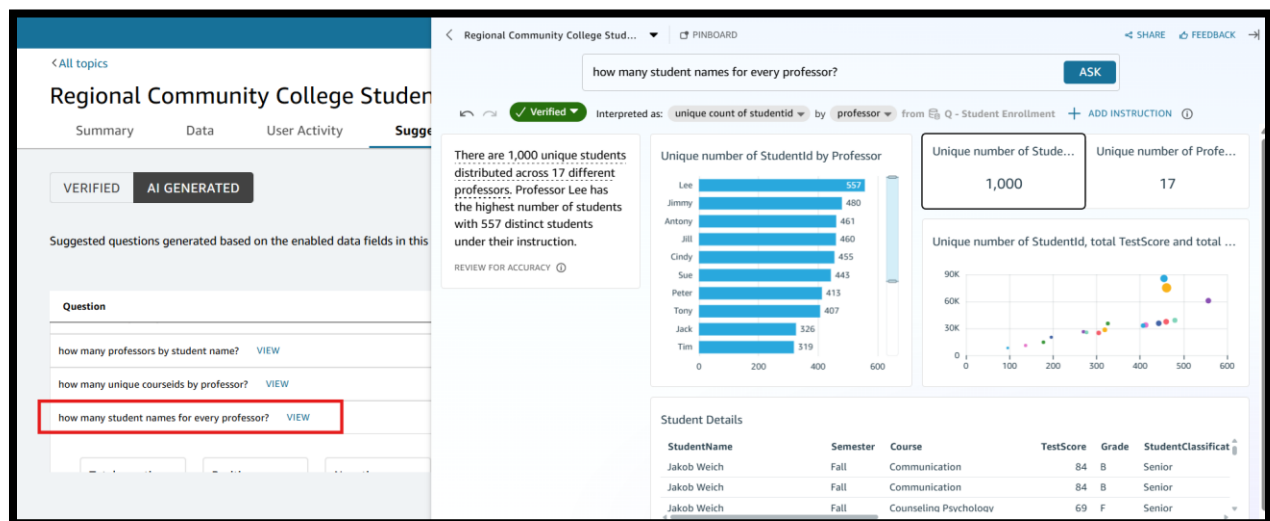


Figure 18 Picking the AI generated question how many students for every professor and verifying the answer

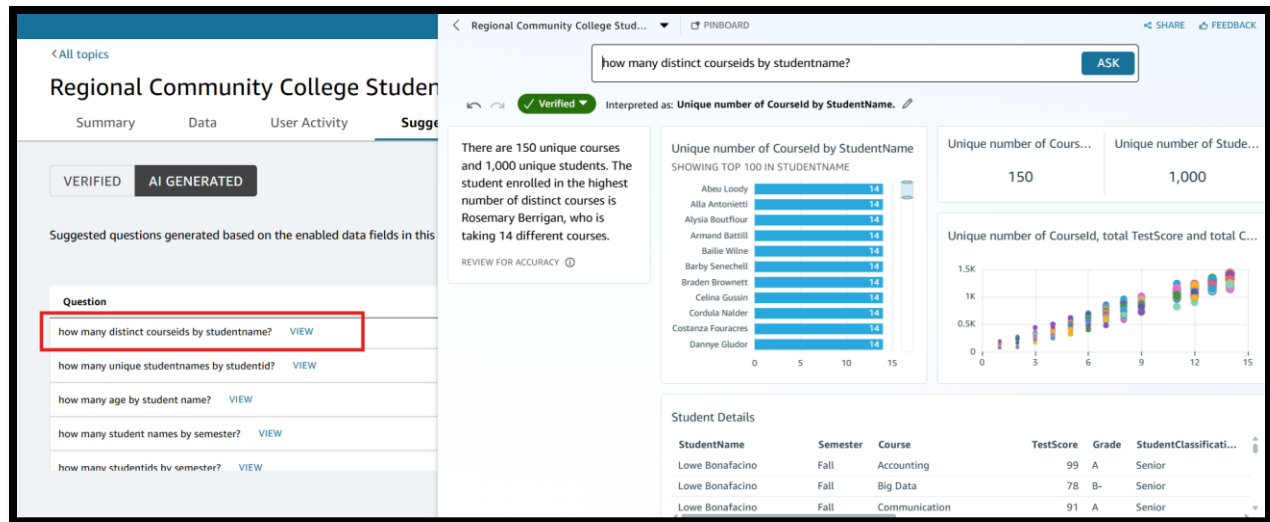


Figure 19 Picking the AI generated question how many distinct course ids by student name and verifying the answer

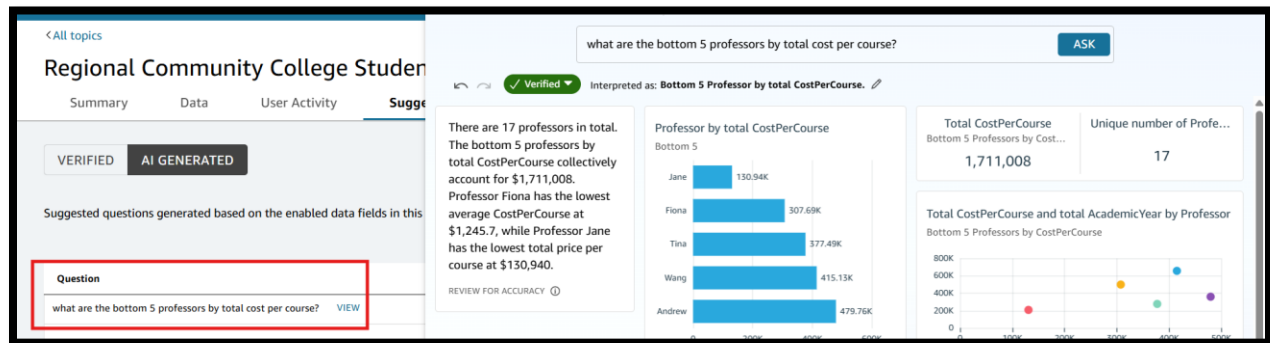


Figure 20 Picking the AI generated question who are the 5 professors with lowest price per course and verifying the answer

The screenshot displays the 'Regional Community College Student Data' interface. The 'Suggested Questions' tab is selected. A table lists AI-generated questions that have been marked as verified. The table has columns: Question, Asked, Validated by, and Validated at.

Question	Asked	Validated by	Validated at
how many distinct courseids by studentname? <a href="#">VIEW</a>	2	AuthorPro_11326485@vocareum.com	6 minutes ago
which courses are the most expensive <a href="#">VIEW</a>	0	AuthorPro_11326485@vocareum.com	17 hours ago
how many professors by student name? <a href="#">VIEW</a>	0	AuthorPro_11326485@vocareum.com	13 minutes ago
what are the bottom 5 professors by total cost per course? <a href="#">VIEW</a>	0	AuthorPro_11326485@vocareum.com	2 minutes ago
which instructors got the best average evaluations <a href="#">VIEW</a>	0	AuthorPro_11326485@vocareum.com	18 hours ago
which courses are the most expensive <a href="#">VIEW</a>	0	AuthorPro_11326485@vocareum.com	17 hours ago
Which courses are most expensive, on average? <a href="#">VIEW</a>	0	AuthorPro_11326485@vocareum.com	19 minutes ago
how many student names for every professor? <a href="#">VIEW</a>	0	AuthorPro_11326485@vocareum.com	9 minutes ago

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