

**Columns used (Excel alphabet + number to help processing)**

- studentEmail : C (3)
- Courses Taken : D (4) → L (12)
  - Course Types : M (13) → AD (30)
- Primary Reason for Abroad : AG (33)
- Primary Language Spoken @ Host Country : AH (34) - AI (35)
- Language Proficiency Before & After : AJ (36) - AK (37)
- Orientation Description : AL (38)
- Residential Staff Availability: AM (39)
  - "" Comments: AN (40)
- Housing Accomodation: AO (41) - AP (42)
  - "" Comments: AQ (43)
- Academic Excursion Availability: AR (44)
  - "" Ratings: AT (46)
  - "" Comments: AU (47)
- Leisure Excursion Availability: AV (48)
  - "" Ratings: AX (50)
  - "" Comments: AY (51)
- Amount of Money Spent: BA (53)
- Affordability of the city: BB (54)
- Extracurricular participated: BC (55)
- Reflection on the goals: BF (58)
- Personal & Academic Growth: BZ (78)
- Challenges of the experience: CA (79)
- New Perspectives post program: CB (80)
- Factors Influencing the experience: CN (92) – CO (93)
  - Other factors: CP (94)
- Attitudes different from us: CQ (95)
  - Others: CR (96)
  - Comments: CS (97)
- Recommendation Rating: CT (98)
  - Comment on why: CU (99)
- Country: CY (103)
- Majors: CZ (104) – DB (106)
- Program Name: DC (107)
- Term: DE (109)

## Relational Schema

- Entities

1. student(student\_email, major, primary\_reason, language\_proficiency)
2. location(location\_name, primary\_language, country)
3. program(program\_name)
4. student\_program(student\_email, program\_name, term)
5. program\_location(program\_name, location\_name)
6. personal\_reflection(pr\_id, Goals\_reflections, growth, challenges, new\_perspectives)

- Relations

1. Participates\_in(student\_email, program\_name, term, Language Proficiency after, amount\_spent, city\_affordability, extracurriculars, courses\_taken, courses\_type, influencing\_factors, attitudes\_diff, attitudes\_diff\_comments, orientation\_description, res\_staff\_avail, res\_staff\_comment, housing\_acc, housing\_acc\_comment, academic\_exc\_avail, academic\_exc\_rating, academic\_exc\_comments, leisure\_exc\_avail, leisure\_exc\_rating, leisure\_exc\_comments, recommendation\_rating, recommendation\_comments)
2. Is\_about(pr\_id, student\_email, program\_name, term)

## SQL Code

```
CREATE TABLE student (  
    student_email VARCHAR(255) PRIMARY KEY,  
    major VARCHAR(255),  
    primary_reason VARCHAR(255),  
    language_proficiency VARCHAR(255)  
);
```

```
CREATE TABLE location (  
    location_name VARCHAR(255) PRIMARY KEY,
```

```
primary_language VARCHAR(255),  
country VARCHAR(255)  
);
```

```
CREATE TABLE program (  
    program_name VARCHAR(255) PRIMARY KEY  
);
```

```
CREATE TABLE student_program (  
    student_email VARCHAR(255),  
    program_name VARCHAR(255),  
    term VARCHAR(255),  
    PRIMARY KEY (student_email, program_name, term),  
    FOREIGN KEY (student_email) REFERENCES student(student_email),  
    FOREIGN KEY (program_name) REFERENCES program(program_name)  
);
```

```
CREATE TABLE program_location (  
    program_name VARCHAR(255),  
    location_name VARCHAR(255),  
    PRIMARY KEY (program_name),  
    FOREIGN KEY (program_name) REFERENCES program(program_name),  
    FOREIGN KEY (location_name) REFERENCES location(location_name)  
);
```

```
CREATE TABLE participates_in (  

```

```
student_email VARCHAR(255),
program_name VARCHAR(255),
term VARCHAR(255),
language_proficiency_after VARCHAR(255),
amount_spent INT,
city_affordability TEXT,
extracurriculars TEXT,
courses_taken TEXT,
courses_type VARCHAR(255),
influencing_factors VARCHAR(255),
attitudes_diff BOOLEAN,
attitudes_diff_comments TEXT,
orientation_description TEXT,
res_staff_avail BOOLEAN,
res_staff_comment TEXT,
housing_acc BOOLEAN,
housing_acc_comment TEXT,
academic_exc_avail BOOLEAN,
academic_exc_rating VARCHAR(255),
academic_exc_comments TEXT,
leisure_exc_avail BOOLEAN,
leisure_exc_rating VARCHAR(255),
leisure_exc_comments TEXT,
PRIMARY KEY (student_email, program_name, term),
FOREIGN KEY (student_email) REFERENCES student(student_email),
FOREIGN KEY (program_name) REFERENCES program(program_name)
```

```
);
```

```
CREATE TABLE is_about (
```

```
    pr_id INT,
```

```
    student_email VARCHAR(255),
```

```
    program_name VARCHAR(255),
```

```
    goals_reflections TEXT,
```

```
    term VARCHAR(255),
```

```
    growth TEXT,
```

```
    challenges TEXT,
```

```
    new_perspectives TEXT,
```

```
    recommendation_rating INT,
```

```
    recommendation_comments TEXT,
```

```
    PRIMARY KEY (pr_id, student_email, program_name, term),
```

```
    FOREIGN KEY (student_email, program_name, term) REFERENCES  
participates_in(student_email, program_name, term)
```

```
    ON DELETE CASCADE
```

```
);
```