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(<u>student_email</u>, major, primary_reason, language_proficiency)
    2. Location(<u>location_name</u>, primary_language, influencing_factors, attitudes_diff, attitudes_diff_comments)
    3. Program(<u>program_name</u>, 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, country)
    4. Student_program(<u>student_email</u>, <u>program_name)</u>
    5. program_location(<u>program_name</u>, location_name)

- Relations
    1. Participates_in(<u>student_email</u>, <u>program_name</u>, term, Language Proficiency after, amount_spent, city_affordability, extracurriculars, courses_taken, courses_type)
    2. Is_about((<u>pr_id,</u> (<u>student_email</u>, <u>program_name)</u>, Goals_reflections, growth, challenges, new_perspectives, recommendation_rating, recommendation_comments)

Entities:

```
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),
    influencing_factors VARCHAR(255),
    attitudes_diff BOOLEAN,
    attitudes_diff_comments TEXT
);
CREATE TABLE Program (
    program_name VARCHAR(255) PRIMARY KEY,
    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,
```

```sql
    leisure_exc_rating VARCHAR(255),
    leisure_exc_comments TEXT,
    country VARCHAR(255)
);

CREATE TABLE Student_program (
    student_email VARCHAR(255),
    program_name VARCHAR(255),
    PRIMARY KEY (student_email, program_name),
    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),
    PRIMARY KEY (student_email, program_name),
    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,
    growth TEXT,
    challenges TEXT,
    new_perspectives TEXT,
    recommendation_rating INT,
    recommendation_comments TEXT,
    PRIMARY KEY (pr_id, student_email, program_name),
    FOREIGN KEY (student_email, program_name) REFERENCES
Participates_in(student_email, program_name)
    ON DELETE CASCADE
);
```