```sql
--create database university_ranking

USE university_ranking

DROP TABLE IF EXISTS country,
                     university,
                     university_ranking_year,
                     ranking_system,
                     ranking_criteria

CREATE TABLE country(
    id                      INT IDENTITY(1,1)   NOT NULL,
    country_name            VARCHAR(50)         NOT NULL,
    PRIMARY KEY (id)
);

CREATE TABLE university(
    id                      INT IDENTITY(1,1)   NOT NULL,
    country_id              INT                 NOT NULL,
    university_name         VARCHAR(50)         NOT NULL,
    FOREIGN KEY (country_id) REFERENCES country (id),
    PRIMARY KEY (id)
);

CREATE TABLE ranking_system(
    id                      INT IDENTITY(1,1)   NOT NULL,
    system_name             VARCHAR(50)         NOT NULL,
    PRIMARY KEY (id)
);

CREATE TABLE ranking_criteria(
    id                      INT IDENTITY(1,1)   NOT NULL,
    ranking_system_id       INT                 NOT NULL,
    criteria_name           VARCHAR(50)         NOT NULL,
    FOREIGN KEY (ranking_system_id) REFERENCES ranking_system (id),
    PRIMARY KEY (id)
);


CREATE TABLE university_ranking_year(
    university_id           INT                 NOT NULL,
    ranking_criteria_id     INT                 NOT NULL,
    year                    INT                 NOT NULL,
    score                   INT                 NOT NULL,
    FOREIGN KEY (university_id) REFERENCES university (id),
    FOREIGN KEY (ranking_criteria_id) REFERENCES ranking_criteria (id),
    PRIMARY KEY (university_id,ranking_criteria_id)
);
```

```sql
USE university_ranking;

INSERT INTO country (country_name)
VALUES  ('Poland'),
        ('Germany'),
        ('France'),
        ('Scotland'),
        ('Belgium'),
        ('Spain'),
        ('USA');




INSERT INTO university (university_name, country_id)
SELECT 'PWr', id FROM country WHERE country_name = 'Poland'
UNION ALL
SELECT 'University of Freiburg', id FROM country WHERE country_name = 'Germany'
UNION ALL
SELECT 'UWr', id FROM country WHERE country_name = 'Poland'
UNION ALL
SELECT 'Heidelberg University', id FROM country WHERE country_name = 'Germany'
UNION ALL
SELECT 'Harvard University', id FROM country WHERE country_name = 'USA'
UNION ALL
SELECT 'Stanford University', id FROM country WHERE country_name = 'USA';


--DELETE FROM university;
--DBCC CHECKIDENT('university', RESEED, 0);


INSERT INTO ranking_system (system_name)
VALUES ('World University Rankings'),
       ('Country University Rankings'),
       ('Subject-Specific Rankings');


INSERT INTO ranking_criteria (criteria_name, ranking_system_id)
VALUES ('Academic Reputation', 1),
       ('Employer Reputation', 1),
       ('Citations per Faculty', 1),
       ('International Faculty Ratio', 1),
       ('International Student Ratio', 1),
       ('Research', 2),
       ('Teaching', 2),
       ('Research Income', 2),
       ('Subject Ranking', 3),
       ('Publication Citation', 3);


INSERT INTO university_ranking_year (university_id, ranking_criteria_id, year, score)
VALUES
       (1, 1, 2021, 93),
       (1, 2, 2021, 85),
       (1, 3, 2021, 77),
       (1, 4, 2021, 81),
       (1, 5, 2021, 84),
       (1, 6, 2021, 79),
       (1, 7, 2021, 86),
       (1, 8, 2021, 76),
       (1, 9, 2021, 82),
       (1, 10, 2021, 88),
       (2, 1, 2021, 91),
```

```
(2, 2, 2021, 83),
(2, 3, 2021, 76),
(2, 4, 2021, 80),
(2, 5, 2021, 83),
(2, 6, 2021, 78),
(2, 7, 2021, 85),
(2, 8, 2021, 74),
(2, 9, 2021, 81),
(2, 10, 2021, 87),
(3, 1, 2021, 90),
(3, 2, 2021, 82),
(3, 3, 2021, 75),
(3, 4, 2021, 79),
(3, 5, 2021, 82),
(3, 6, 2021, 77),
(3, 7, 2021, 84),
(3, 8, 2021, 73),
(3, 9, 2021, 80),
(3, 10, 2021, 86),
(4, 1, 2021, 89),
(4, 2, 2021, 81),
(4, 3, 2021, 74),
(4, 4, 2021, 78),
(4, 5, 2021, 81),
(4, 6, 2021, 76),
(4, 7, 2021, 83),
(4, 8, 2021, 72),
(4, 9, 2021, 79),
(4, 10, 2021, 85),
(5, 1, 2021, 88),
(5, 2, 2021, 80),
(5, 3, 2021, 73),
(5, 4, 2021, 77),
(5, 5, 2021, 80),
(5, 6, 2021, 75),
(5, 7, 2021, 82),
(5, 8, 2021, 71),
(5, 9, 2021, 78),
(5, 10, 2021, 84),
(6, 1, 2021, 92),
(6, 2, 2021, 86),
(6, 3, 2021, 78),
(6, 4, 2021, 77),
(6, 5, 2021, 99),
(6, 6, 2021, 87),
(6, 7, 2021, 88),
(6, 8, 2021, 84),
(6, 9, 2021, 80),
(6, 10, 2021, 81);
```

```sql
USE university_ranking;

SELECT DISTINCT id, country_name  FROM country;
SELECT DISTINCT country_name FROM country;

SELECT DISTINCT id, country_name  FROM country;
SELECT * FROM university;

SELECT * FROM ranking_system;

SELECT * FROM ranking_criteria;

SELECT *
FROM university_ranking_year
INNER JOIN ranking_criteria ON ranking_criteria_id = ranking_criteria.id
INNER JOIN ranking_system ON ranking_system.id = ranking_criteria.ranking_system_id
WHERE score >= 85 AND system_name = 'World University Rankings';


SELECT TOP 10 *
FROM university_ranking_year
INNER JOIN ranking_criteria ON ranking_criteria_id = ranking_criteria.id
INNER JOIN ranking_system ON ranking_system.id = ranking_criteria.ranking_system_id
INNER JOIN university ON university_id = university.id
INNER JOIN country ON country.id = country_id
WHERE   system_name = 'World University Rankings'
AND     year = 2021
ORDER BY score DESC
```