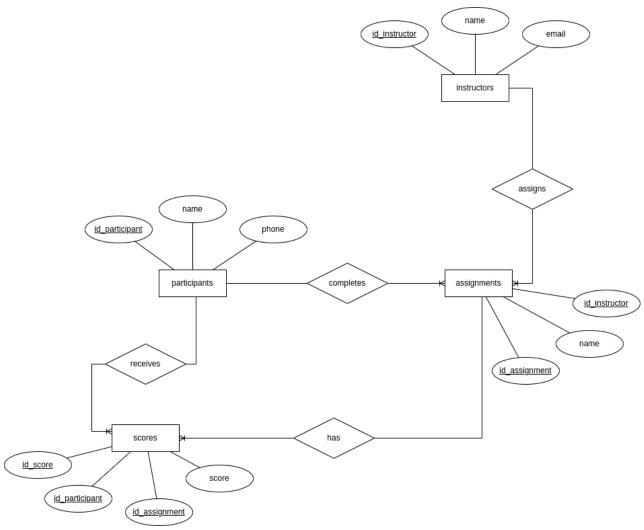
1.



```
2.
CREATE TABLE participants (
 id_participant SERIAL PRIMARY KEY,
 name VARCHAR(55),
 phone VARCHAR(13)
);
CREATE TABLE assignments (
 id_assignment SERIAL PRIMARY KEY,
 name VARCHAR(255),
 id_instructor INT,
);
CREATE TABLE scores (
  id_score SERIAL PRIMARY KEY,
  id_participant INT,
  id_assignment INT,
  score DECIMAL(5, 2),
```

```
created at DATE
  FOREIGN KEY (id_participant) REFERENCES participant(id_participant),
  FOREIGN KEY (id assignment) REFERENCES assignment(id assignment)
);
CREATE TABLE instructor (
  id_instructor SERIAL PRIMARY KEY,
  name VARCHAR(30),
  email VARCHAR(20)
);
3.
   a. SELECT participants.name AS participant_name,
      assignments.name AS assignment name,
      scores.score
      FROM scores
      JOIN participants ON scores.id participant = participants.id participant
      JOIN assignments ON scores.id_assignment = assignments.id_assignment
      WHERE participants.id_participant = 1;
   b. SELECT participants.name AS participant_name,
      AVG(scores.score) AS average_score
      FROM participants
      LEFT JOIN scores ON participants.id_participant = scores.id_participant
      GROUP BY participants.name;
   c. SELECT
       CASE
        WHEN score >= 90 THEN 'A'
        WHEN score >= 80 THEN 'B'
        WHEN score >= 70 THEN 'C'
        WHEN score >= 60 THEN 'D'
        ELSE 'F'
       END AS nilai range,
       COUNT(*) AS jumlah_peserta
      FROM scores
      GROUP BY nilai range
      ORDER BY nilai_range;
   d. SELECT
       nilai range,
       string_agg(participants.name, ', ') AS peserta_dalam_rentang
      FROM (
       SELECT
        participants.name,
        CASE
```

```
WHEN scores.score >= 90 THEN 'A'
      WHEN scores.score >= 80 THEN 'B'
      WHEN scores.score >= 70 THEN 'C'
      WHEN scores.score >= 60 THEN 'D'
      ELSE 'F'
     END AS nilai_range
    FROM participants
    LEFT JOIN scores ON participants.id_participant = scores.id_participant
   ) AS nilai_peserta
   GROUP BY nilai range
   ORDER BY nilai_range;
e. SELECT
    tanggal_penilaian,
    COUNT(*) AS jumlah_penilaian
   FROM (
    SELECT
     created_at::DATE AS tanggal_penilaian
    FROM scores
        WHERE created_at BETWEEN '2023-08-30' AND '2023-09-01') AS
   tanggal_penilaian_count
   GROUP BY tanggal_penilaian
   ORDER BY tanggal_penilaian;
```