Fiddle

http://sqlfiddle.com/#!9/860b9b/1

Example Schema

```
CREATE TABLE Student(
  id INT PRIMARY KEY AUTO_INCREMENT,
  facultate VARCHAR(64),
  grupa INT,
  medie DOUBLE
);
```

Example Data

```
INSERT INTO Student(facultate, grupa, medie) VALUES
  ('UT-CN - Calculatore', 34001, 7.30),
  ('UT-CN - Calculatore', 34001, 8.70),
  ('UT-CN - Calculatore', 34001, 5.00),
  ('UT-CN - Calculatore', 34001, 9.25),

  ('UT-CN - Calculatore', 34002, 7.30),
  ('UT-CN - Calculatore', 34002, 5.00),
  ('UT-CN - Calculatore', 34002, 7.95),
  ('UT-CN - Calculatore', 34002, 9.99),

  ('UT-CN - Automatica', 34001, 7.30),
  ('UT-CN - Automatica', 34001, 8.25),
  ('UT-CN - Automatica', 34001, 7.95),
  ('UT-CN - Automatica', 34001, 9.95);
```

Queries

```
-- Maxim global
SELECT A.id as student, A.facultate, A.grupa, A.medie
  FROM Student AS A
  LEFT JOIN Student AS B ON
    A.medie < B.medie
  WHERE B.id IS NULL;

-- Minim global (all)
SELECT A.id as student, A.facultate, A.grupa, A.medie
  FROM Student AS A
  LEFT JOIN Student AS B ON
    A.medie > B.medie
  WHERE B.id IS NULL;

-- Minim global (single)
SELECT A.id as student, A.facultate, A.grupa, A.medie
  FROM Student AS A
  LEFT JOIN Student AS B ON
    A.medie > B.medie OR
    (A.medie = B.medie AND A.id > B.id)
  WHERE B.id IS NULL;
```

```sql
-- Maxim (per facultate)
SELECT A.id as student, A.facultate, A.grupa, A.medie
  FROM Student AS A
  LEFT JOIN Student AS B ON
    A.medie < B.medie AND
    A.facultate = B.facultate
  WHERE B.id IS NULL;

-- Maxim (per grupa + facultate)
SELECT A.id as student, A.facultate, A.grupa, A.medie
  FROM Student AS A
  LEFT JOIN Student AS B ON
    A.medie < B.medie AND
    A.facultate = B.facultate AND
    A.grupa = B.grupa
  WHERE B.id IS NULL;
```

Explanation

Let us talk about a simpler example: assuming that we only have data for the first four students and we want to get the global max – first query (do not care about the faculty or group).

Initial Data

id	media
1	7.30
2	8.70
3	5.00
4	9.25

Join

Join “process”:

A.id	A.media	B.id	B.media
1	7.30	1	7.30
1	7.30	2	8.70
1	7.30	3	5.00
1	7.30	4	9.25
2	8.70	1	7.30
2	8.70	2	8.70
2	8.70	3	5.00
2	8.70	4	9.25
3	5.00	1	7.30
3	5.00	2	8.70
3	5.00	3	5.00
3	5.00	4	9.25
4	9.25	1	7.30
4	9.25	2	8.70
4	9.25	3	5.00
4	9.25	4	9.25

Join result

A.id	A.media	B.id	B.media
1	7.30	2	8.70
1	7.30	4	9.25
2	8.70	4	9.25
3	5.00	1	7.30
3	5.00	2	8.70
3	5.00	4	9.25
4	9.25	*NULL*	*NULL*

Where

A.id	A.media	B.id	B.media
4	9.25	*NULL*	*NULL*

Projection

id	media
4	9.25