-- data manipulation functions/ questions ; select data from multiple tables (INNER JOIN)
 -- Show me a list of students who rented instruments

Select * FROM Students
WHERE school_student = true;

stud_id	firstname	surname	school_student
1	Maria	Nowak	1
2	Jan	Rudy	1
4	Patryk	Kowal	1

-- Show me who and when rented clarinet

SELECT s.firstname, s.surname, r.date_rent_start, i.instr_type
FROM Students s
INNER JOIN Rental r
ON s.stud_id = r.stud_id
INNER JOIN Instruments i
ON r.instr_id = i.instr_id
WHERE instr_type = 'clarinet';

firstname	surname	date_rent_start	instr_type
Maria	Nowak	2016-09-20	clarinet

-- Tell me, when violin will be able

SELECT i.instr_id, i.instr_type, r.date_rent_stop
FROM Instruments i
INNER JOIN Rental r
ON i.instr_id = r.instr_id
WHERE instr_type = 'violin';

instr_id	instr_type	date_rent_stop
102	violin	2027-06-26

-- aggregating and sorting data, numeric functions

-- MAX()

-- Which instrument has the highest value?

```sql
SELECT instr_type, instr_value
FROM Instruments
WHERE instr_value = (SELECT MAX(instr_value) FROM Instruments);
```

instr_type	instr_value
cello	15300

-- COUNT()
-- How many instruments are rented now ?

```sql
SELECT COUNT(stud_id)
FROM Rental
WHERE date_rent_stop > '2023-01-17';
```

COUNT(stud_id)
4

-- sorting using ORDER BY
-- Rank in descending order the date of rent

```sql
SELECT * FROM Rental
ORDER BY date_rent_start DESC;
```

instr_id	date_rent_start	date_rent_stop	stud_id
103	2022-10-01	2027-06-26	4
102	2020-08-30	2027-06-26	3
104	2019-09-10	2024-06-23	2
101	2016-09-20	2023-05-30	1