

# DBS\_CP3

Last edited by [Filip Kopecký](#) just now

```
-- UNION This query retrieves the license plates of all cars that have either
-- extremely low mileage (less than 1) or high mileage (greater than 20,000)
-- without duplicates - množinové operace
```

```
SELECT plate_number
FROM car
WHERE mileage < 1
UNION
SELECT plate_number
FROM car
WHERE mileage > 20000;
```

	plate_number
1	PQR2345
2	JKL3456

```
-- Find customers who rented a car more than zero times, sorted by the number of rentals desc - řazení
```

```
SELECT customer.name, COUNT (*) AS rentals FROM customer
JOIN operation ON (customer.id = operation.customer_id)
JOIN rental ON (operation.id = rental.operation_id)
GROUP BY customer.name
HAVING COUNT (*) > 0
ORDER BY COUNT (*) DESC;
```

	name	rentals
1	Petr Svoboda	2
2	Tomáš Černý	1
3	Filip Kopecký	1
4	Anna Srdíčková	1
5	Matěj Nový	1
6	Lucie Krásná	1

```
-- Find the customer with the most rentals - vnořený SELECT, podmínka na data, vnitřní spojení
SELECT name,rentals FROM (
SELECT name, COUNT (*) as rentals FROM customer JOIN operation ON (customer.id = operation.customer_id)
JOIN rental ON (operation.id = rental.operation_id)
GROUP BY customer.name
) AS customer_stats
WHERE rentals = (
SELECT MAX (rentals)
FROM (
SELECT COUNT (*) as rentals
FROM customer
JOIN operation ON customer.id = operation.customer_id
JOIN rental ON operation.id = rental.operation_id
GROUP BY customer.name
) AS subquery
);
```

	name	rentals
1	Petr Svoboda	2

```
-- most expensive car to rent - podmínku na hodnotu agregační funkce
SELECT plate_number, brand,price_per_day AS price_per_day
FROM (SELECT car.plate_number, car.brand, rental.price_per_day
FROM car
JOIN operation o ON car.id = o.car_id
JOIN rental ON o.id = rental.operation_id
GROUP BY plate_number, price_per_day,car.brand
HAVING price_per_day = (SELECT MAX (price_per_day)
```

```
FROM (  
car JOIN operation o ON car.id = o.car_id  
JOIN rental ON o.id = rental.operation_id))) as pnbppd;
```

	plate_number	brand	price_per_day
1	PQR2345	Škoda	2200

```
-- list the brands of cars that individual customers have rented - stránkování  
SELECT brand,name FROM  
car JOIN operation o on car.id = o.car_id  
JOIN customer c on o.customer_id = c.id  
JOIN rental r on o.id = r.operation_id  
GROUP BY brand,name  
ORDER BY brand ASC  
LIMIT 4 OFFSET 2;
```

	brand	name
1	Škoda	Anna Srdíčková
2	Škoda	Petr Svoboda
3	Tesla	Lucie Krásná
4	Toyota	Tomáš Černý

```
-- selects the names of employees who are not assigned to any service,limited by 15 - vnější spojení tabulek  
SELECT employee.name  
FROM employee  
LEFT JOIN is_responsible_for ON employee.id = is_responsible_for.employee_id  
WHERE is_responsible_for.service_id IS NULL  
LIMIT 15 OFFSET 0;
```

	name
1	Jáchym Hod'hodostroje
2	Employee 32
3	Employee 33
4	Employee 34
5	Employee 35
6	Employee 36
7	Employee 37
8	Employee 38
9	Employee 39
10	Employee 40
11	Employee 41
12	Employee 42
13	Employee 43
14	Employee 44
15	Employee 45