Higher School of Economy

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5 March 2023

SQL Home Work 5
Introduction to SQL Query Development (DQL)

Task description

Write the following SQL queries for the reservation table:

1. Output the codes of drivers who have booked Class A cars between 2018-01-01 and 2018-01-20 inclusive (that is, the start date of the booking is in this range)

```sql
SELECT c.cid
From Car c
WHERE c.clsid ='A'

SELECT DISTINCT r.did
From Res r
WHERE r.[start] >='2018-01-01'and r.[start] <='2018-01-20' and (r.cid = 2
or r.cid = 5
```

```
did|
---+
  2|
  3|
```

2. Output the codes of cars that the driver with code "2" booked after 2018-01-01-01.

```sql
SELECT DISTINCT r.cid
From Res r
WHERE r.[start] >='2018-01-01' and r.did = 2
```

```
cid|
---+
  2|
  6|
```

3. Output the codes of drivers who booked "B" class cars for more than 10 days no later than 2018-01-01-20

```sql
SELECT DISTINCT r.did
From Res r
WHERE r.[start] <='2018-01-20' and r.days <= 10 and (r.cid = 1 or r.cid =
3)
```

```
did|
---+
  1|
```

4. Output the codes of Class "A" cars that were booked by drivers at the airport after 2018-01-01.

```sql
SELECT c.cid
From Car c
WHERE c.clsid ='A'

SELECT DISTINCT r.cid
From Res r
WHERE r.[start] >='2018-01-01' and (r.cid = 2 or r.cid = 5) and r.pickAt = 'airport'
```

```
cid|
---+
  2|
  5|
```

5. Output the codes of drivers and Class "B" cars that were rented between 2018-01-01-01 through 2018-01-20, inclusive (with reservation records that overlap this range), and with the vehicle being picked up at the airport.

```sql
SELECT c.cid
From Car c
WHERE c.clsid ='B'

SELECT DISTINCT r.cid,r.did
From Res r
WHERE r.[start] >='2018-01-01'and r.[start] <='2018-01-20' and r.finish >='2018-01-01'and r.finish  <='2018-01-20' and (r.cid = 1 or r.cid = 3) and r.pickAt = 'airport'
```

```
cid|did|
---+---+
  1|  1|
  3|  1|
```