List all available cars for a given date SQL

Asked 7 years, 4 months ago Modified 7 years, 4 months ago Viewed 2k times



Hello guys am trying to show list of all available cars for a given date i try with BETWEEN but unsuccessfully. Is it a good idea to add another field(status) in the car table and query with status. Has there's a good approach? Or is it better to be displayed by using the booking_date between return_date?



booking:



id	customer_id	car_id	booking_date	return_date	time_stamp
1	2	5	2015-11-04	2015-11-12	15.06.10 20:10
2	3	2	2015-11-02	2015-11-13	15.06.10 20:10
3	1	11	2015-11-05	2015-11-16	15.06.10 20:10
4	4	8	2015-11-10	2015-12-16	15.06.10 20:10
5	0	0	0000-00-00	0000-00-00	15.06.10 20:10

CarType:

id car_type_id branch_id registration_number color
date_of_manifacturing base_price_per_day

30	1	1	1	BG-123-431	Bela	2010-11-15
30	2	2	1	BG-A32-212	Metalik	2015-11-04
35	3	3	2	PA-332-421	Metalik	2008-05-03
35	4	4	1	SM-312-542	Crna	2014-06-01
50	5	5	1	BG-4393-54	Crna	2012-05-03
50	6	6	1	NS-423-64	Bela	2010-10-08

Car:

id car_type_id branch_id registration_number color
date_of_manifacturing base_price_per_day

30	1	1	1	BG-123-431	Bela	2010-11-15
30	2	2	1	BG-A32-212	Motalib	2015-11-04
30	2	2	_	DG AJZ 212	Hetatik	2013 11 04
	3	3	2	PA-332-421	Metalik	2008-05-03
35						
	4	4	1	SM-312-542	Crna	2014-06-01

```
1 BG-4393-54
                                                       Crna
                                                                2012-05-03
50
                  6
                              1 NS-423-64
                                                       Bela
                                                                2010-10-08
     6
50
```

My all bookings am listing like this:

```
SELECT BOOKING.BOOKING_NUMBER, BOOKING.BOOKING_DATE,
BOOKING.RETURN_DATE, AGENCY.NAME, CAR.REGISTRATION_NUMBER,
CAR_TYPE.NAME
FROM BOOKING
JOIN AGENCY ON BOOKING.AGENCY_ID = AGENCY.ID
JOIN CAR ON CAR.ID = BOOKING.CAR_ID
JOIN CAR_TYPE ON CAR_TYPE.ID = CAR.CAR_TYPE_ID
```

But for all available vehicles I have no idea. Any example?

```
php
       mysql
                sal
                      database
```

Share Improve this question Follow



asked Nov 4, 2015 at 14:15



Sorted by:

5,035 11 52 84

2 Answers





You can use LEFT JOIN:

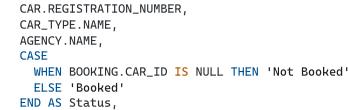
SELECT



1







BOOKING.BOOKING_NUMBER,

```
BOOKING.BOOKING_DATE,
 BOOKING.RETURN_DATE
FROM CAR
INNER JOIN CAR_TYPE ON CAR_TYPE.ID
                                    = CAR.CAR_TYPE_ID
LEFT JOIN BOOKING ON CAR.ID
                                       = BOOKING.CAR_ID
LEFT JOIN AGENCY
                  ON BOOKING.AGENCY_ID = AGENCY.ID;
```

This will give you all the available cars, and if any cars has no booking it will come with NULL values for booking and agency, and the Status column will show whether it is booking or not. Share Improve this answer Follow

answered Nov 4, 2015 at 14:20





Using your booking table you can know what cars are book on a single day @checkDate



```
SELECT *
FROM BOOKING
WHERE @checkDate BETWEEN booking_date AND return_date
```



So to get available cars on that date, you use:

OR in your full query

```
SELECT

BOOKING.BOOKING_NUMBER, BOOKING.BOOKING_DATE,
BOOKING.RETURN_DATE, AGENCY.NAME,
CAR.REGISTRATION_NUMBER, CAR_TYPE.NAME

FROM BOOKING

JOIN AGENCY ON BOOKING.AGENCY_ID = AGENCY.ID

JOIN CAR ON CAR.ID = BOOKING.CAR_ID

JOIN CAR_TYPE ON CAR_TYPE.ID = CAR.CAR_TYPE_ID

WHERE
CAR.car_id not in (
SELECT car_id
FROM BOOKING
WHERE @checkDate BETWEEN booking_date AND return_date
```

Share Improve this answer Follow

edited Nov 4, 2015 at 14:37

answered Nov 4, 2015 at 14:20



I think for the bigger amount of data NOT IN is litle slower? Beeter to use NOT EXIST – Ivan Nov 4, 2015 at 14:43 /

I just give you the safest solution. You can also try left join BOOKING on @checkDate BETWEEN booking_date AND return_date but because I dont have the data didnt want to guess. That way you will get NULL for not booked cars – Juan Carlos Oropeza Nov 4, 2015 at 14:45 /

I think will work ok if you have index for booking_date and return_date. Other solution is use EXISTS but you will know what is the better only by testing with your data – Juan Carlos Oropeza Nov 4,

2015 at 14:47 🧪