

LIST ALL AVAILABLE CARS FOR A GIVEN DATE SQL-MYSQL

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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:

```
SELECT *
FROM Cars
WHERE car_id not in (
    SELECT car_id
    FROM BOOKING
    WHERE @checkDate BETWEEN booking_date  AND
return_date
)
```

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
)
```



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```
SELECT
  CAR.REGISTRATION_NUMBER,
  CAR_TYPE.NAME,
  AGENCY.NAME,
  CASE
    WHEN BOOKING.CAR_ID IS NULL THEN 'Not Booked'
    ELSE 'Booked'
  END AS Status,
  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.



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