Name and Student Number: _____

Quiz 4 Answers

Vacation Car International ("VCI") is a car rental agencies with offices in several cities around the globe. VCI maintains a database that it uses to keep track of orders and related information. Here are two of the tables in the database, described using the SQL code that was used to create them:

```
create table vehicle_type (
 type_id integer auto_increment,
 description varchar(100), -- e.g. "compact 2- or 4-door"
 air_conditioning boolean, -- does it have air conditioning
 transmission enum("automatic", "manual"), -- automatic or manual transmission
 primary key (type_id)
);
create table booking ( -- call it "booking" since "order" is an SQL keyword
 order_id integer auto_increment,
 customer_id integer,
 car_type_id integer,
 start_date date,
 end_date date,
 primary key (order_id),
 foreign key (customer_id) references customer(customer_id),
 foreign key (car_type_id) references vehicle_type(type_id)
);
```

Please write a query that answers the following question: ***For bookings that start in November of 2011, how many are for <u>automatic</u> cars with air conditioning and how many are for <u>manual</u> cars with air conditioning?*** The result should show the numbers for automatic and manual cars separately, like this:

```
+--------------+--------+
| automatic    | 12731 |
| manual       |  2195 |
+--------------+--------+
```

The solution:

```
select vehicle_type.transmission, count(*)
from vehicle_type
join booking
     on booking.car_type_id=vehicle_type.type_id
where booking.start_date >= "2011-11-01"
      and booking.start_date < "2011-12-01"
      and vehicle_type.air_conditioning=True
group by vehicle_type.transmission;
```

Please note that "enum("automatic","manual")" is a data type. "Enum" is not a part of the field name.

(your answer probably shouldn't go past this point)