

(i)

```
CREATE INDEX PriceSearch ON CarClass(daily_price);
```

This index would be useful for when customers are searching for a car to rent based upon price. The query it would help with is as follows:

```
SELECT registration_num  
FROM car  
WHERE car.name IN (SELECT name  
                    FROM carclass  
                    WHERE daily_price < X)
```

This query is used to find cars for customers who have a budget of X dollars and thus wish to find a car at or below X. An index on the daily_price attribute of carclass would speed up a search for cars within a given price range.

(ii)

```
CREATE INDEX RentalReminder ON Rental(PickedUpAt)
```

This index would be useful for our company so that we may email personalized reminders to customers about the start date of their rental some amount of time before their rental. Perhaps this time could be up to the customer or each day at 8AM before the rental or something like that. In either of these cases, this index would be helpful and use the following query:

```
SELECT rental_id, email, name, address  
FROM Rental  
WHERE PickedupAt < X, PickedupAt > Y
```

or, alternatively:

```
SELECT rental_id, email, name, address  
FROM Rental  
WHERE PickedupAt = Z
```