

(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 more quickly find customers who have a rental starting in some amount of time and send them a personalized email to remind them about their rental. For example, these emails could be sent out each day at 8AM for rentals beginning the following day.

```
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
```