

Part A. Suggested Solution

1)

a) *mrsSelectedCustomers*

```
"SELECT * FROM tblCustomers " & _  
"WHERE Surname = '" & txtSurname.Text & "'"
```

b) *mrsBookings – used by frmBooking*

```
"SELECT tblBookings.*, tblCustomers.*, Description " & _  
"FROM tblBookings, tblCustomers, tblCabin, tblCabinType " & _  
"WHERE tblBookings.CustomerNumber = tblCustomers.CustomerNum " & _  
"AND tblBookings.CabinNumber = tblCabin.CabinNumber " & _  
"AND tblCabin.CabinTypeCode = tblCabinType.CabinTypeCode "
```

c) *mrsAvailableCabins – used to load flxAvailableCabins on frmInquiry*

Note that pstDateIn and pstDateOut are gained from the customer's selection from the calendar control as displayed in txtDateIn.Text and txtDateOut.Text –

```
pstDateIn = Format(txtDateIn.Text, "dd-mmm-yyyy")  
pstDateOut = Format(txtDateOut.Text, "dd-mmm-yyyy")
```

This SQL statement assumes that a booking cannot be made on the day that the previous booking finishes because the cabin has to have a clear day for cleaning between tenants.

Enclosing the concatenated strings in #s makes them able to be read as Dates by Access.

```
"SELECT CabinNumber, Description, Features, Beds, DailyRate " & _  
"FROM tblCabin, tblCabinType " & _  
"WHERE tblCabin.CabinTypeCode = tblCabinType.CabinTypeCode " & _  
"AND CabinNumber Not In (SELECT CabinNumber " & _  
"FROM tblBookings " & _  
"WHERE (DateIn <= #" & pstDateIn & "# " & _  
"AND DateOut >= #" & pstDateIn & "#) " & _  
"OR (DateIn >= #" & pstDateIn & "# " & _  
"AND DateIn <= #" & pstDateOut & "#)) " & _  
"ORDER BY CabinNumber"
```

2)

a) *On loading frmBookings*

- set mstMode to equal 'View'.
- With each textbox on the form
 - Lock it
 - backColor it the same as the form's backColor
- End with
- Show the caption for lblDate to equal today's date
- Show fraNavigation and fraFunctions
- Open mrsBookings as a combination of fields from tblCustomers, tblBookings, tblCabin – see 1)b) above.
- If there is at least one record in mrsBookings then

- Display the first record in mrsBookings in each of the textboxes.
 - Calculate the Duration of the booking and calculate and display the Total Amount and the Balance Owing.
 - Set the focus to cmdMainMenu – on Form_Activate().
- Else
 - Display a message regarding the absence of a booking record
 - display “” in each textbox
- End If

b) On click of cmdNext on frmCustomers:

- Move to the next record in the recordset (mrsCustomers)
- Check to see if the recordpointer is beyond the EndOfFile marker.
- If it is then display a message and move back to the last record.
- Else display the fields from the active record in the textboxes – do not allow a Null to become the Text property of a textbox.
- End If

c) cmdFind_Click on frmInquiry

- Check that an entry exists in the 2 textboxes for DateIn and DateOut.
- If not, display a message regarding the necessity for a selection to be made
- Else open the mrsAvailableCabins recordset based on the query 1)c) above
 - If there is at least one record in the recordset then:
 - Make flxAvailableCabins visible
 - Set up its column headings
 - Loop through mrsAvailableCabins until the EOF marker
 - create a string with the 4 fields from the active record.
 - add the string to flxAvailableCabins
 - move to the next record in mrsAvailableCabins.
 - Hide the Find Cabins command button and make the Select button visible.
 - Wait for a selection in flxAvailableCabins.
 - Else display a message concerning the unavailability of any cabins during the selected period.
 - End If
- End If