

## Business Rules (Assumptions)

1. Each booking may have many payments. (*A booking can be made without making any advance payment at the time of booking, hence resulting in people to make tentative bookings. Also the payment can be made in installments hence, it is not necessary to pay in full at once hence resulting in one booking to have multiple payments.*)
2. A staff member may record many bookings (*A staff member may record zero or more bookings in a particular day resulting in one staff member to possibly record multiple bookings*)
3. A customer may make many bookings. (*A customer may make more than one booking at a time, resulting in a customer to make multiple tentative bookings possibly for different dates if unsure of which dates he will be able to go for.*)
4. A tour may have many departures. (*A tour can have different departures at different start and end times, hence if a specific departure has no more space for a tour, then people could go in a different departure at a different time for that same tour, resulting in more options for people to choose among which departure they want to go in.*)
5. A departure may have many tour days. (*A departure can have more than one tour day allocated for it, if the tour is spread out over multiple tour days to visit multiple attractions*)
6. A tour day may have an accommodation allocated for its customers depending on how many tour days there are. (*If the tour is only one day*

*then there is no accommodation for the customers, however if the tour has more than one day then accommodation is allocated for the customers)*

7. One specific transport may be used to visit multiple attractions (*The same transport can be used to visit multiple attractions.*)
8. Each tour day may consist of travelling to many cities (*It's not necessary that each tour day must consist of travelling from one city to another, however a tour day may consist of travelling from one city to another or to multiple cities.*)
9. A specific transport may be used to travel to many cities (*A specific transport may be used to travel to one city or more*)
10. Each tour day may have many attractions planned to visit for its customers (*A tour day may take its customers to one or more attractions to visit*)

**NOTE:** Also, we have not included any derived quantities as part of the Logical model such Amount due/Total payable as they could be derived through the multiplication of the number and fare of adults and children respectively.



-- Generated by Oracle SQL Developer Data Modeler 4.1.2.895

Task completed in 1.244 seconds

Table ACCOMODATION dropped.  
  
Table ATTRACTION dropped.  
  
Table BOOKING dropped.  
  
Table CUSTOMER dropped.  
  
Table DEPARTURE dropped.  
  
Table INTERCITY\_TRAVEL dropped.  
  
Table PAYMENT dropped.  
  
Table STAFF dropped.  
  
Table TOUR dropped.



end\_time DATE NOT NULL ,

Task completed in 1.244 seconds

Table TOURDAY dropped.

Table TRANSPORT dropped.

Table ACCOMODATION created.

Table ACCOMODATION altered.

Table ATTRACTION created.

Table ATTRACTION altered.

Table BOOKING created.

Table BOOKING altered.

Table CUSTOMER created.

Oracle SQL Developer : C:\Users\Bazil Muzaffar\Desktop\FIT1004A3.sql

File Edit View Navigate Run Source Team Tools Window Help



Logical (Assignment Part B - Logical) x Relational\_1 (Assignment Part B - Logical) x FIT1004A3.sql x

SQL Worksheet History



Assignment Part B

Worksheet Query Builder

end\_time DATE NOT NULL ,

Script Output x

Task completed in 1.244 seconds

Table CUSTOMER altered.

Table DEPARTURE created.

Table DEPARTURE altered.

Table INTERCITY\_TRAVEL created.

Table INTERCITY\_TRAVEL altered.

Table PAYMENT created.

Table PAYMENT altered.

Table STAFF created.

Table STAFF altered.

Saved: C:\Users\Bazil Muzaffar\Desktop\FIT1004A3.sql

| Line 48 Column 1 | Insert | Unix/Mac: LF



end\_time DATE NOT NULL ,

Task completed in 1.244 seconds

Table TOUR created.

Table TOUR altered.

Table TOURDAY created.

Table TOURDAY altered.

Table TRANSPORT created.

Table TRANSPORT altered.

Table ATTRACTION altered.

Table ATTRACTION altered.



end\_time DATE NOT NULL ,

Task completed in 1.244 seconds

Table BOOKING altered.

Table BOOKING altered.

Table BOOKING altered.

Table DEPARTURE altered.

Table INTERCITY\_TRAVEL altered.

Table INTERCITY\_TRAVEL altered.

Table PAYMENT altered.

Table TOURDAY altered.

Table TOURDAY altered.