PASS TASK 4.1 REPORT

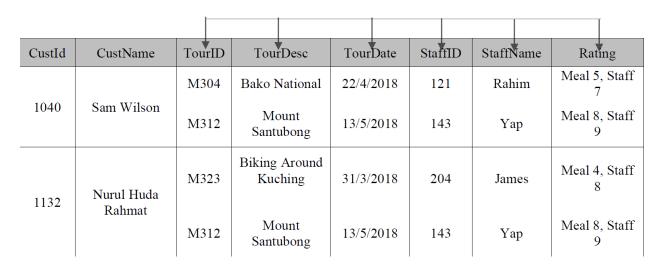
Student Name	LimJia Lok
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SUB TASK 4.1.1

SOLUTION

Step 1

Repeating groups



Step 2

Tour Agency Table

CustId	CustName	<u>TourID</u>	TourDesc	<u>TourDate</u>	StaffID	StaffName	RatingM	RatingS
1040	Sam	M304	Bako	22/4/2018	121	Rahim	5	7
	Wilson		National					
1040	Sam	M312	Mount	13/5/2018	143	Yap	8	9
	Wilson		Santubong					
1132	Nurul	M323	Biking	31/3/2018	204	James	4	8
	Huda		Around					
	Rahmat		Kuching					
1132	Nurul	M312	Mount	13/5/2018	143	Yap	8	9
	Huda		Santubong					
	Rahmat							

COMMENTS/FINDINGS

a. There are repeating groups in the attributes TourlD, TourDesc, TourDate, StaffID, StaffName and Rating.

b. To remove repeating groups which are in the attributes TourID, TourDesc, TourDate, StaffID, StaffName and Rating. The primary ID should be CustID, TourID and TourDate as it is unique. So, it has functional dependencies.

The reason is because this helps to make it easier to search up particular TourID, TourDesc, TourDate, StaffID, StaffName and Rating. If not, when they are clumped together, it makes it harder to search in the database.

SUB TASK 4.1.2

SOLUTION

Step 1

<u>CustId</u>	CustName	<u>TourID</u>	TourDesc	<u>TourDate</u>	StaffID	StaffName	RatingM	RatingS
1040	Sam	M304	Bako	22/4/2018	121	Rahim	5	7
	Wilson		National					
1040	Sam	M312	Mount	13/5/2018	143	Yap	8	9
	Wilson		Santubong					
1132	Nurul	M323	Biking	31/3/2018	204	James	4	8
	Huda		Around					
	Rahmat		Kuching					
1132	Nurul	M312	Mount	13/5/2018	143	Yap	8	9
	Huda		Santubong					
	Rahmat							

Step 2

Tour Agency table

<u>CustId</u>	<u>TourID</u>	<u>TourDate</u>	RatingM	RatingS
1040	M304	22/4/2018	5	7
1040	M312	13/5/2018	8	9
1132	M323	31/3/2018	4	8
1132	M312	13/5/2018	8	9

Tour Table

<u>TourID</u>	<u>TourDate</u>	StaffID	StaffName
M304	22/4/2018	121	Rahim
M312	13/5/2018	143	Yap
M323	31/3/2018	204	James

Tour Description Table

<u>TourID</u>	TourDesc
M304	Bako
	National
M312	Mount
	Santubong
M323	Biking
	Around
	Kuching
M312	Mount
	Santubong

Customer Table

<u>CustId</u>	CustName
1040	Sam Wilson
1132	Nurul Huda
	Rahmat

COMMENTS/FINDINGS

CustID, TourID and TourDate is the primary key. There are partial dependencies at first. It is necessary to create three table in order to achieve functional dependencies. CustName is dependent on CustID and TourDesc, StaffID, and StaffName are dependent on TourID AND TourDate. Besides, TourDesc is dependent on TourID

SUB TASK 4.1.3

SOLUTION

Step1

Tour Table

<u>TourID</u>	<u>TourDate</u>	StaffID	StaffName
M304	22/4/2018	121	Rahim
M312	13/5/2018	143	Yap
M323	31/3/2018	204	James

There is transitive dependencies here. StaffName depends on StaffID that is not a primary key.

Step 2

Tour Agency table

CustId	<u>TourID</u>	<u>TourDate</u>	RatingM	RatingS
1040	M304	22/4/2018	5	7
1040	M312	13/5/2018	8	9
1132	M323	31/3/2018	4	8
1132	M312	13/5/2018	8	9

Customer Table

<u>CustId</u>	CustName
1040	Sam Wilson
1132	Nurul Huda
	Rahmat

Tour Table

<u>TourID</u>	<u>TourDate</u>	StaffID
M304	22/4/2018	121
M312	13/5/2018	143
M323	31/3/2018	204

Staff Table

<u>StaffID</u>	StaffName
121	Rahim
143	Yap
204	James

Tour Description Table

<u>TourID</u>	TourDesc
M304	Bako
	National
M312	Mount
	Santubong
M323	Biking
	Around
	Kuching
M312	Mount
	Santubong

COMMENTS/FINDINGS

First, we have to see which attributes have transitive dependencies. An attribute that do not necessarily need the primary key to uniquely identify it. These are StaffID and StaffName in the tour table.