Lab-10

Transport management System

Entity

Name	Attributes	Primary Key
Bus	Busno, category,source,destination,distance	busno
Bus_depot	Depocode, depocity	Depocode
Ticket	Ticketno,bookdt,fare	Ticketno
Passenger	Pname, age, sex	Pname+ age

BUS

Attributes	Data type
Busno	Varchar
Category	Varchar
Source	Varchar
Destination	Varchar
Distance	number

busno	category	source	destination	distance
JH01A1210	Super deluxe	Tata	Ranchi	500
JH02P3423	Deluxe	Ranchi	Dumka	600
JH09F1098	Super deluxe	Tata	Hazaribag	550
JH03K9880	Ac deluxe	Tata	Patna	1000

BUS Depot

attributes	Data type
Depocode	Varchar
Depocity	varchar

depocode	depocity
Dep01	Tata
Dep02	Ranchi

Ticket

attributes	Data type
ticketno	number
fare	Number
bookdt	date

Ticket no	fare	bookdt
657120	250	10-nov-06
657121	250	10-nov-06
657300	400	15-dec-06
657301	400	15-dec-06
657302	400	15-dec-06
657	550	01-jan-07
658	550	01-jan-07
651100	450	11-jan-07
651101	450	11-jan-07

Passenger

attribute	Data type
Pname	Varchar
Age	Number
Sex	varchar

pname	age	Sex
Pranab	34	M
Pranab	20	M
Sanchita	30	F
Rubi	55	F
Sandip	44	M
Subrata	60	M
Abhuday	40	M
Pankaj	15	M
Sibangi	22	F
Anurag	30	M
Ravindra	50	M
Raghav	40	M
Geeta	65	F
Alok pal	67	M
Sangita	62	F
Ragini	35	F
Prabhu	55	M
surabhi	57	M

Relationship

relations	Primary key	Foreign key	Reference entity	Relationship attribute
Leaves	Busno+depocode	Busno→depocode	Bus, busdepot	Nill
Booked_in	Busno+ticketno	Busno→ticketno	Bus, ticket	Nill
belongs	Ticketno+seatno	Ticektno→pname	Ticket, passenger	seatno

Seat number (number): seat number of passenger

Leaves

busno	depocode
JH01A1210	DEP01
JH02P3423	DEP02
JH03K9880	DEP01
JH09F1098	DEP01

Booked_in

busno	ticketno
JH01A1210	**657120**
JH01A1210	**657121**
JH02P3423	**651100**
JH02P3423	**651101**
JH03K9880	**657**
JH03KK9880	**658**
JH09F1098	**657300**
JH09F1098	**657301**

Belongs

seatno	Ticketno	pname	age
2	**651101**	**Pranab**	**34**
3	**657120**	**Sanchita**	**30**
4	**657121**	**Rubi**	**55**
10	**657121**	**Sandip**	**44**
11	**657121**	**Subrata**	**60**
12	**657300**	**Abhuday**	**40**
13	**657300**	**Pankaj**	**15**
14	**657301**	**Sibangi**	**22**
5	**657301**	**Anurag**	**30**
6	**657**	**Ravindra**	**50**
7	**657**	**Raghav**	**40**
8	**658**	**Geeta**	**65**
9	**658**	**Alok pal**	**67**
25	**651100**	**Sangita**	**62**
26	**651100**	**Ragini**	**35**
35	**651101**	Prabhu	55
36	**651101**	**Subhash**	**57**
1	**651101**	**pranab**	**20**

Queries

1) List the male passengers who are travelling in "super deluxe" bus.
2) List the passengers who are travelling minimum distance by bus.
3) List the passengers who are travelling by those busses which are starting from bus depot 'dep01'
4) List the ticket details of the bus starting from tata and travelling maximum distance.
5) list the female passengers who have planned to travel on '15-dec-2006'
6) List the total fare earned from the bus running between tata and patna.
7) List the total earnings from the bus starting from ranchi depot.
8) List the bus details in which senior citizens are travelling.
9) List the name, seat number of female passenegers travelling to 'hazaribag'
10) List the age, destination and booking date opf passenger 'pranab'.
11) List the name of passengers travelled by that bus which has covered maximum distance.
12) List the details of teh bus in which those passengers having identical names are travelling.
13) List the earnings from the bus having maximum ticket fare.
14) List the bus details in which the youngest female passenger purchased tickets.
15) List the details of bus depot from which the bus is carrying the oldest male passenger.
16) List the passenger details who had planned their travel in the month of November.
17) List the total number of busses running from tata depot.