DBMS ASSIGNMENT-1

TITLE: TRANSPORT MANAGEMENT SYSTEM FOR INTRA CITY TRAVELS

TRANSPORT MANAGEMENT SYSTEM FOR INTRA CITY TRAVELS

ROLL NUMBER:1602-18-737-117
NAME: KODIPYAKA VINAY BABU

DBMS ASSIGNMENT-1

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ABSTRACT:

The project is about transport management system for intra city travels. Starting with intracity refers to outside the city. There will be different ways of transportation to move from one place to another. The project is about creating a application where in user can book different modes of transport in a single place. Starting with user creates a account giving the details such as name, id, age mobile number, email id etc. cost for each vehicle varies based on its specification. User after creating the account selects the vehicle based on his requirement that is he will select's the vehicle based on the cost and finally makes the payment and user gets the receipt of his transaction. As the details of the availability of each vehicle is stored in the database. After booking the vehicle availability will be decremented.

ROLL NUMBER:1602-18-737-117
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DBMS ASSIGNMENT-1

TITLE: TRANSPORT MANAGEMENT SYSTEM FOR INTRA CITY TRAVELS

REQUIREMENT ANALYSIS:

LIST OF TABLES:

- Passenger
- Checks
- Type of vehicle
- Reserves
- Payment

List of attributes and their domain types:

Passenger:

1. Passenger id -pid- number (10)
2. Age of passenger- age- number (5)
3. Mobile number- mobnum- number (10)
4. Email id of the passenger- emailId- varchar2 (20)
5. Name of the passenger- pname- varvhar2(20)

Checks:

1. Passenger id-pid – number (10)
2. Vehicle id- vid- number (10)
3. Date of travel- day- date

Type of vehicle:

1. Vehicle id- vid – number (5)
2. Availability number- availability- number (5)

ROLL NUMBER:1602-18-737-117
NAME: KODIPYAKA VINAY BABU

TITLE: TRANSPORT MANAGEMENT SYSTEM FOR INTRA CITY TRAVELS

3. Cost of the mode- cost- number (5)
4. Specification- type- varchar2(10)
5. Type of vehicle chosen- modeoftransport- varchar2 (10)

RESERVES:

1. Passeneger id- pid- number (10)
2. Vehicle id- vid- number (10)
3. Payment id- payid- number (10)
4. Date of reservation- day-date

PAYMENT:

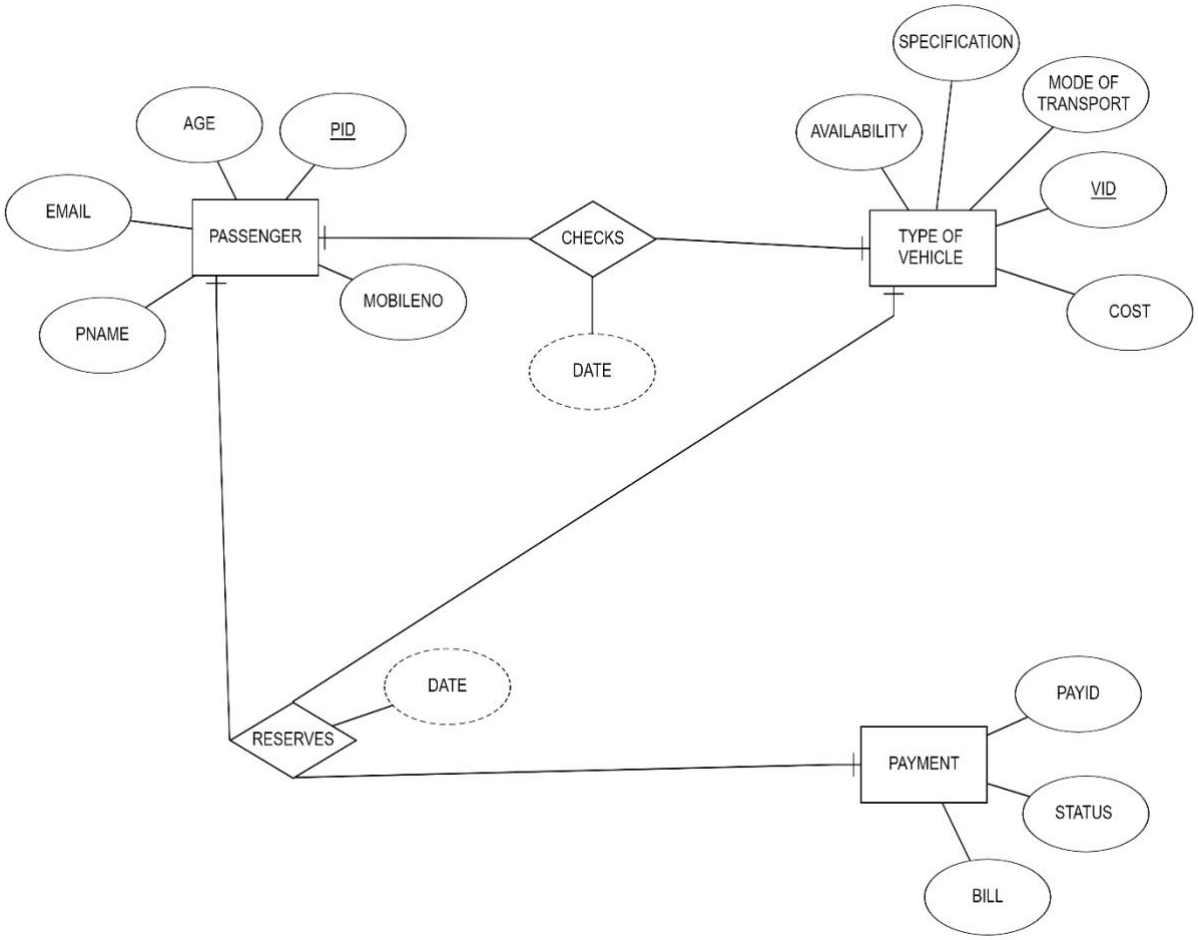
1. Payment id – payid- number (10)
2. Payment status- status- varchar2(10)
3. Bill receipt- bill -varchar2(10)

ROLL NUMBER:1602-18-737-117
NAME: KODIPYAKA VINAY BABU

DBMS ASSIGNMENT-1

TITLE: TRANSPORT MANAGEMENT SYSTEM FOR INTRA CITY TRAVELS

ER DIAGRAM:



ROLL NUMBER:1602-18-737-117
NAME: KODIPYAKA VINAY BABU

TITLE: TRANSPORT MANAGEMENT SYSTEM FOR INTRA CITY TRAVELS

MAPPING CARDINALITIES AND PARTICIPATION CONSTRAINTS:

Every passenger is uniquely identified by the passenger id number so the attribute pid in the entity set of passenger is given as primary key attribute.

Similarly, every vehicle is distinguished by a unique number so vid is given as the primary key

In the same way the payid in the payment set is given as primary key

Pid and vid will be the foreign keys for the relationship checks

Pid ,vid and payid will be the foreign keys for reserves

As every passenger can book only one vehicle at a time there will be one to one relation ship between passenger and checks and type of vehicle.

ROLL NUMBER:1602-18-737-117
NAME: KODIPYAKA VINAY BABU

DBMS ASSIGNMENT-1

TITLE: TRANSPORT MANAGEMENT SYSTEM FOR INTRA CITY TRAVELS

DDL COMMANDS:

```
SQL> create table passenger(pid number(5) primary key ,
  2         age number(5) ,
  3         emailId varchar2(20) ,
  4         pname  varchar2(20),
  5         mobnu number(10) );

Table created.

SQL> create table typeofvehicle(vid number(5) primary key ,
  2          modeoftransport varchar2(10) ,
  3          cost number(5) ,
  4          availability number(10) ,
  5          type varchar2(10) );
```


ROLL NUMBER:1602-18-737-117
NAME: KODIPYAKA VINAY BABU

TITLE: TRANSPORT MANAGEMENT SYSTEM FOR INTRA CITY TRAVELS

Table created.

```
SQL> create table payment(payid number(10) primary key ,
  2          status varchar2(20) ,
  3          bill varchar2(10) );
```

Table created.

```
SQL> create table checks(pid number(5) ,
  2       vid number(5),
  3       day date,
  4       primary key(pid,vid) ,
  5       foreign key(pid) references passenger ,
  6       foreign key(vid) references typeofvehicle );
```

Table created.

```
SQL> create table reserves(pid number(5) ,
  2       vid number(5) ,
  3       payid number(10) ,
```


ROLL NUMBER:1602-18-737-117
NAME: KODIPYAKA VINAY BABU

TITLE: TRANSPORT MANAGEMENT SYSTEM FOR INTRA CITY TRAVELS

```
 4        day date ,
 5        primary key(pid,vid,payid) ,
 6        foreign key(pid) references passenger ,
 7        foreign key(vid) references typeofvehicle ,
 8        foreign key(payid) references payment );
```

Table created.

SQL> desc checks;

Name	Null?	Type
PID	NOT NULL	NUMBER(5)
VID	NOT NULL	NUMBER(5)
DAY		DATE

SQL> desc passenger;

Name	Null?	Type
PID	NOT NULL	NUMBER(5)
AGE		NUMBER(5)
EMAILID		VARCHAR2(20)

ROLL NUMBER:1602-18-737-117
NAME: KODIPYAKA VINAY BABU

TITLE: TRANSPORT MANAGEMENT SYSTEM FOR INTRA CITY TRAVELS

PNAME		VARCHAR2(20)
MOBNU		NUMBER(10)

SQL> desc typeofvehicle;

Name	Null?	Type
VID	NOT NULL	NUMBER(5)
MODEOFTRANSPORT		VARCHAR2(10)
COST		NUMBER(5)
AVAILABILITY		NUMBER(10)
TYPE		VARCHAR2(10)

SQL> desc reserves;

Name	Null?	Type
PID	NOT NULL	NUMBER(5)
VID	NOT NULL	NUMBER(5)
PAYID	NOT NULL	NUMBER(10)
DAY		DATE

SQL> desc payment;

ROLL NUMBER:1602-18-737-117
NAME: KODIPYAKA VINAY BABU

TITLE: TRANSPORT MANAGEMENT SYSTEM FOR INTRA CITY TRAVELS

Name	Null?	Type
PAYID	NOT NULL	NUMBER(10)
STATUS		VARCHAR2(20)
BILL		VARCHAR2(10)

DML COMMANDS:

SQL> insert into passenger values(&pid,&age,'&emailId','&pname',&mobnu);

Enter value for pid: 117

Enter value for age: 18

Enter value for emailid: vinaybabu@gmail.com

Enter value for pname: vinay babu

Enter value for mobnu: 6303845805

old 1: insert into passenger values(&pid,&age,'&emailId','&pname',&mobnu)

ROLL NUMBER:1602-18-737-117
NAME: KODIPYAKA VINAY BABU

TITLE: TRANSPORT MANAGEMENT SYSTEM FOR INTRA CITY TRAVELS

```
new   1: insert into passenger
values(117,18,'vinaybabu@gmail.com','vinay babu',6303845805)

1 row created.

SQL> /
Enter value for pid: 120
Enter value for age: 20
Enter value for emailid: yasho@gmail.com
Enter value for pname: yasho
Enter value for mobnu: 8686819973
old   1: insert into passenger
values(&pid,&age,'&emailId','&pname',&mobnu)


new   1: insert into passenger
values(120,20,'yasho@gmail.com','yasho',8686819973)

1 row created.

SQL> /
Enter value for pid: 98
Enter value for age: 19
```


ROLL NUMBER:1602-18-737-117
NAME: KODIPYAKA VINAY BABU

TITLE: TRANSPORT MANAGEMENT SYSTEM FOR INTRA CITY TRAVELS

Enter value for emailid: sheelasai@gmail.com

Enter value for pname: sairo

Enter value for mobnu: 7095716819

old 1: insert into passenger
values(&pid,&age,'&emailId','&pname',&mobnu)

new 1: insert into passenger
values(98,19,'sheelasai@gmail.com','sairo',7095716819)

1 row created.

SQL> /

Enter value for pid: 82

Enter value for age: 22

Enter value for emailid: maneeth@gmail.com

Enter value for pname: manethsai

Enter value for mobnu: 955320159

old 1: insert into passenger
values(&pid,&age,'&emailId','&pname',&mobnu)

new 1: insert into passenger
values(82,22,'maneeth@gmail.com','manethsai',955320159)

1 row created.

ROLL NUMBER:1602-18-737-117
NAME: KODIPYAKA VINAY BABU

DBMS ASSIGNMENT-1

TITLE: TRANSPORT MANAGEMENT SYSTEM FOR INTRA CITY TRAVELS

SQL> select * from passenger;

PID	AGE	EMAILID	PNAME	MOBNU
117	18	vinaybabu@gmail.com	vinay babu	6303845805
120	20	yasho@gmail.com	yasho	8686819973
98	19	sheelasai@gmail.com	sairo	7095716819
82	22	maneeth@gmail.com	manethsai	955320159

SQL> insert into typeofvehicle
values(&vid,'&modeoftransport',&cost,&availability,'&type');

Enter value for vid: 01

Enter value for modeoftransport: bus

Enter value for cost: 1500

Enter value for availability: 15

Enter value for type: suplux

old 1: insert into typeofvehicle
values(&vid,'&modeoftransport',&cost,&availability,'&type')

new 1: insert into typeofvehicle values(01,'bus',1500,15,'suplux')

1 row created.

ROLL NUMBER:1602-18-737-117
NAME: KODIPYAKA VINAY BABU

DBMS ASSIGNMENT-1

TITLE: TRANSPORT MANAGEMENT SYSTEM FOR INTRA CITY TRAVELS

SQL> /

Enter value for vid: 2

Enter value for modeoftransport: bus

Enter value for cost: 3000

Enter value for availability: 20

Enter value for type: ac

old 1: insert into typeofvehicle
values(&vid,'&modeoftransport',&cost,&availability,'&type')

new 1: insert into typeofvehicle values(2,'bus',3000,20,'ac')

1 row created.

SQL> /

Enter value for vid: 3

Enter value for modeoftransport: bus

Enter value for cost: 1000

Enter value for availability: 25

Enter value for type: express

old 1: insert into typeofvehicle
values(&vid,'&modeoftransport',&cost,&availability,'&type')

ROLL NUMBER:1602-18-737-117
NAME: KODIPYAKA VINAY BABU

TITLE: TRANSPORT MANAGEMENT SYSTEM FOR INTRA CITY TRAVELS

new 1: insert into typeofvehicle values(3,'bus',1000,25,'express')

1 row created.

SQL> /

Enter value for vid: 4

Enter value for modeoftransport: bus

Enter value for cost: 2500

Enter value for availability: 22

Enter value for type: nonacslpr

old 1: insert into typeofvehicle values(&vid,'&modeoftransport',&cost,&availability,'&type')

new 1: insert into typeofvehicle values(4,'bus',2500,22,'nonacslpr')

1 row created.

SQL> /

Enter value for vid: 5

Enter value for modeoftransport: train

Enter value for cost: 1800

ROLL NUMBER:1602-18-737-117
NAME: KODIPYAKA VINAY BABU

TITLE: TRANSPORT MANAGEMENT SYSTEM FOR INTRA CITY TRAVELS

Enter value for availability: 56

Enter value for type: supfastac

old 1: insert into typeofvehicle values(&vid,'&modeoftransport',&cost,&availability,'&type')

new 1: insert into typeofvehicle values(5,'train',1800,56,'supfastac')

1 row created.

SQL> /

Enter value for vid: 6

Enter value for modeoftransport: train

Enter value for cost: 1000

Enter value for availability: 87

Enter value for type: supfastnac

old 1: insert into typeofvehicle values(&vid,'&modeoftransport',&cost,&availability,'&type')

new 1: insert into typeofvehicle values(6,'train',1000,87,'supfastnac')

1 row created.

SQL> /

Enter value for vid: 7

ROLL NUMBER:1602-18-737-117
NAME: KODIPYAKA VINAY BABU

TITLE: TRANSPORT MANAGEMENT SYSTEM FOR INTRA CITY TRAVELS

Enter value for modeoftransport: train

Enter value for cost: 800

Enter value for availability: 93

Enter value for type: express

old 1: insert into typeofvehicle
values(&vid,'&modeoftransport',&cost,&availability,'&type')

new 1: insert into typeofvehicle values(7,'train',800,93,'express')

1 row created.

SQL> /

Enter value for vid: 8

Enter value for modeoftransport: train

Enter value for cost: 360

Enter value for availability: 104

Enter value for type: passenger

old 1: insert into typeofvehicle
values(&vid,'&modeoftransport',&cost,&availability,'&type')

new 1: insert into typeofvehicle values(8,'train',360,104,'passenger')

1 row created.

ROLL NUMBER:1602-18-737-117
NAME: KODIPYAKA VINAY BABU

DBMS ASSIGNMENT-1

TITLE: TRANSPORT MANAGEMENT SYSTEM FOR INTRA CITY TRAVELS

SQL> /

Enter value for vid: 9

Enter value for modeoftransport: car

Enter value for cost: 5000

Enter value for availability: 45

Enter value for type: ac

old 1: insert into typeofvehicle values(&vid,'&modeoftransport',&cost,&availability,'&type')

new 1: insert into typeofvehicle values(9,'car',5000,45,'ac')

1 row created.

SQL> /

Enter value for vid: 10

Enter value for modeoftransport: car

Enter value for cost: 3000

Enter value for availability: 56

Enter value for type: nonac

old 1: insert into typeofvehicle values(&vid,'&modeoftransport',&cost,&availability,'&type')

new 1: insert into typeofvehicle values(10,'car',3000,56,'nonac')

ROLL NUMBER:1602-18-737-117
NAME: KODIPYAKA VINAY BABU

TITLE: TRANSPORT MANAGEMENT SYSTEM FOR INTRA CITY TRAVELS

1 row created.

SQL> select * from typeofvehicle;

VID	MODEOFTRAN	COST	AVAILABILITY	TYPE
1	bus	1500	15	suplux
2	bus	3000	20	ac
3	bus	1000	25	express
4	bus	2500	22	nonacslpr
5	train	1800	56	supfastac
6	train	1000	87	supfastnac
7	train	800	93	express
8	train	360	104	passenger
9	car	5000	45	ac
10	car	3000	56	nonac

10 rows selected.

SQL> insert into payment values(&payid,'&status','&bill');

ROLL NUMBER:1602-18-737-117
NAME: KODIPYAKA VINAY BABU

TITLE: TRANSPORT MANAGEMENT SYSTEM FOR INTRA CITY TRAVELS

Enter value for payid: 01

Enter value for status: successful

Enter value for bill: given

old 1: insert into payment values(&payid,'&status','&bill')

new 1: insert into payment values(01,'successful','given')

1 row created.

SQL> /

Enter value for payid: 2

Enter value for status: succssfull

Enter value for bill: given

old 1: insert into payment values(&payid,'&status','&bill')

new 1: insert into payment values(2,'succssfull','given')

1 row created.

SQL> /

Enter value for payid: 3

Enter value for status: failed

Enter value for bill: n/a

ROLL NUMBER:1602-18-737-117
NAME: KODIPYAKA VINAY BABU

TITLE: TRANSPORT MANAGEMENT SYSTEM FOR INTRA CITY TRAVELS

old 1: insert into payment values(&payid,'&status','&bill')

new 1: insert into payment values(3,'failed','n/a')

1 row created.

SQL> /

Enter value for payid: 4

Enter value for status: failed

Enter value for bill: n/a

old 1: insert into payment values(&payid,'&status','&bill')

new 1: insert into payment values(4,'failed','n/a')

1 row created.

SQL> select * from payment;

PAYID	STATUS	BILL
1	successful	given
2	successful	given
3	failed	n/a
4	failed	n/a

ROLL NUMBER:1602-18-737-117
NAME: KODIPYAKA VINAY BABU

```
SQL> insert into checks values(&pid,&vid,'&day');
Enter value for pid: 117
Enter value for vid: 2


Enter value for day: 02-JAN-20
old   1: insert into checks values(&pid,&vid,'&day')
new   1: insert into checks values(117,2,'02-JAN-20')

1 row created.

SQL> /
Enter value for pid: 120
Enter value for vid: 2
Enter value for day: 03-JAN-20
old   1: insert into checks values(&pid,&vid,'&day')
new   1: insert into checks values(120,2,'03-JAN-20')

1 row created.

SQL> /
```

TITLE: TRANSPORT MANAGEMENT SYSTEM FOR INTRA CITY TRAVELS

Enter value for pid: 98

Enter value for vid: 3

Enter value for day: 4-JAN-20

old 1: insert into checks values(&pid,&vid,'&day')

new 1: insert into checks values(98,3,'4-JAN-20')

1 row created.

SQL> /

Enter value for pid: 82

Enter value for vid: 3

Enter value for day: 5-JAN-20

old 1: insert into checks values(&pid,&vid,'&day')

new 1: insert into checks values(82,3,'5-JAN-20')

1 row created.

SQL> SELECT * FROM CHECKS;

PID	VID	DAY

ROLL NUMBER:1602-18-737-117
NAME: KODIPYAKA VINAY BABU

TITLE: TRANSPORT MANAGEMENT SYSTEM FOR INTRA CITY TRAVELS

```
      117         2 02-JAN-20

      120         2 03-JAN-20

       98         3 04-JAN-20

       82         3 05-JAN-20
```

```
SQL> insert into reserves values(&pid,&vid,&payid,'&day');

Enter value for pid: 117

Enter value for vid: 01


Enter value for payid: 1

Enter value for day: 02-jan-20

old   1: insert into reserves values(&pid,&vid,&payid,'&day')

new   1: insert into reserves values(117,01,1,'02-jan-20')


1 row created.


SQL> /

Enter value for pid: 117

Enter value for vid: 5

Enter value for payid: 2

Enter value for day: 03-jan-20

old   1: insert into reserves values(&pid,&vid,&payid,'&day')

new   1: insert into reserves values(117,5,2,'03-jan-20')
```


ROLL NUMBER:1602-18-737-117
NAME: KODIPYAKA VINAY BABU

1 row created.

SQL> /

Enter value for pid: 120

Enter value for vid: 4

Enter value for payid: 2

Enter value for day: 4-jan-20

old 1: insert into reserves values(&pid,&vid,&payid,'&day')

new 1: insert into reserves values(120,4,2,'4-jan-20')

1 row created.

SQL> /

Enter value for pid: 82

Enter value for vid: 3

Enter value for payid: 1

Enter value for day: 5-jan-20

old 1: insert into reserves values(&pid,&vid,&payid,'&day')

new 1: insert into reserves values(82,3,1,'5-jan-20')

TITLE: TRANSPORT MANAGEMENT SYSTEM FOR INTRA CITY TRAVELS

1 row created.

SQL> select * from reserves;

PID	VID	PAYID	DAY
117	1	1	02-JAN-20
117	5	2	03-JAN-20
120	4	2	04-JAN-20
82	3	1	05-JAN-20

ROLL NUMBER:1602-18-737-117
NAME: KODIPYAKA VINAY BABU