

TAXIES DATABASE MANAGEMENT **SYSTEM**

INT-306 Database Management System

Submitted by

VIVEK RAJ

Registration number:121098074

Roll No: RK21RGB64

Section: K21RG



Lovely Professional University

Phagwara, Punjab

1. INTRODUCTION

A database management system (DBMS) refers to the technology for creating and managing databases. Basically, a DBMS is a software tool to organize (create, retrieve, update, and manage) data in a database. The main aim of a DBMS is to supply a way to store up and retrieve database information that is both convenient and efficient.

This project is about creating a database about taxies management system. Taxies management system allow user to check whether the taxies are available at their timing or not, what offer's are currently running. It also keep record of the passenger who take service , when he take, what offer given to him, how much amount he paid for the ride.

2. TECHNOLOGY LEARNT

The common components that are universal across all DBMS software, including:

- Storage engine.
- Query language.
- Query processor.
- Optimization engine.
- Metadata catalog.
- Log manager.
- Reporting and monitoring tools.
- Data utilities.

Learnt using SQL commandline and queries:

- Learned how to create tables and store data in them.
- Learnt how to select and sort the data according to our requirements.
- Learnt how to use query languages on the data to perform operations.
- Learnt how to use PLSQL to create functions and processes that can be operated through sql command line to be used on the data.

3. PROFILE OF THE PROBLEM

This project is about creating a database about taxies management System which keep record of the passenger who take ride , what amount he pay for ride , what offers are given to him for ride. It also keep record of taxi driver, taxies owner , cost of ride, timing on which he takes ride . This keep record of all these things like customer details, their ride , taxie owner , taxi driver details so that if they are satisfied with our service the take ride again.

4. IMPLEMENTATION

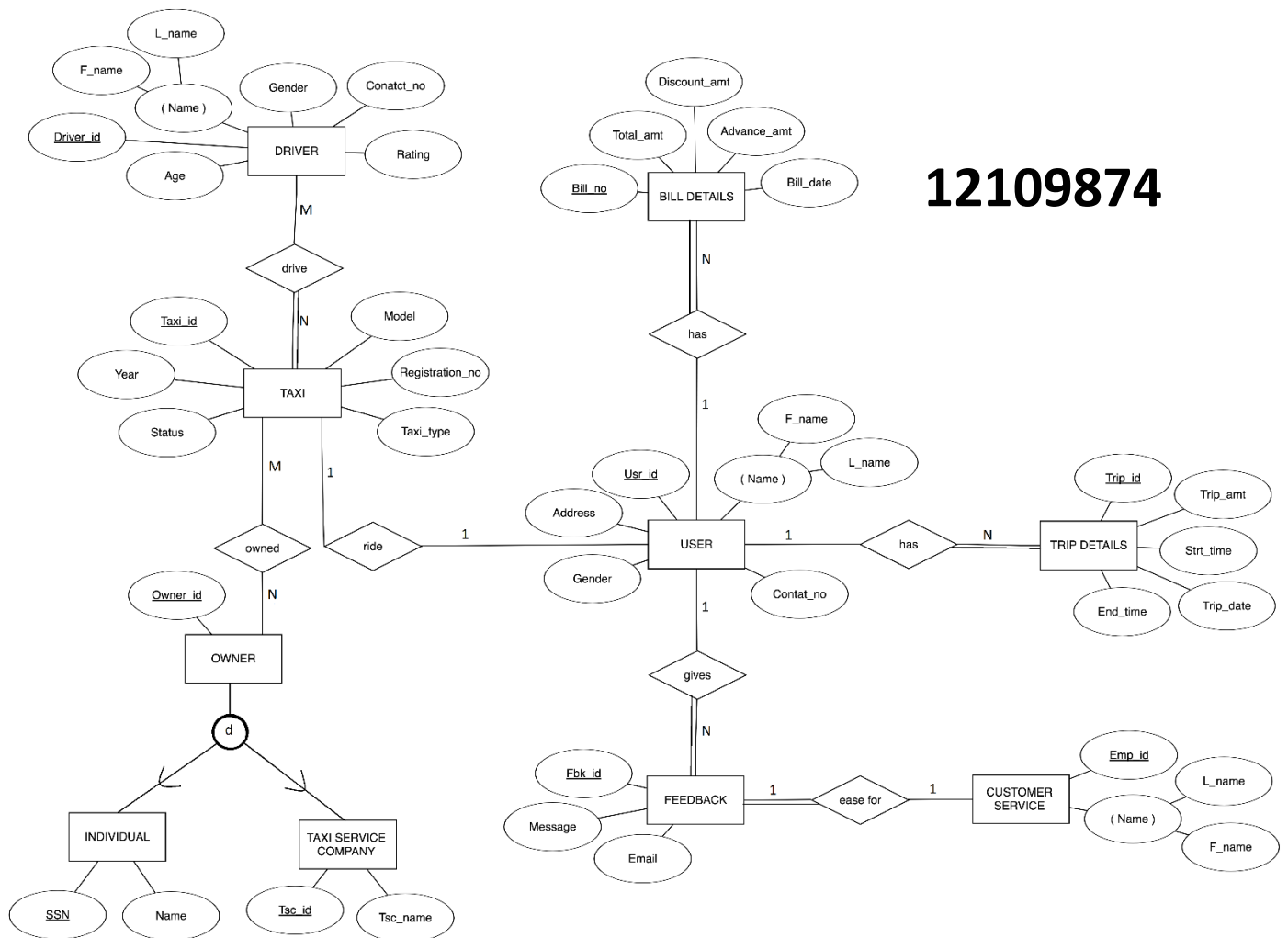
The project is implemented using MySQL

MySQL, pronounced either "MySQL" or "My Sequel," is an open-source relational database management system. It is based on the structure query language (SQL), which is used for adding, removing, and modifying information in the database. Standard SQL commands, such as ADD, DROP, INSERT, and UPDATE can be used with MySQL.

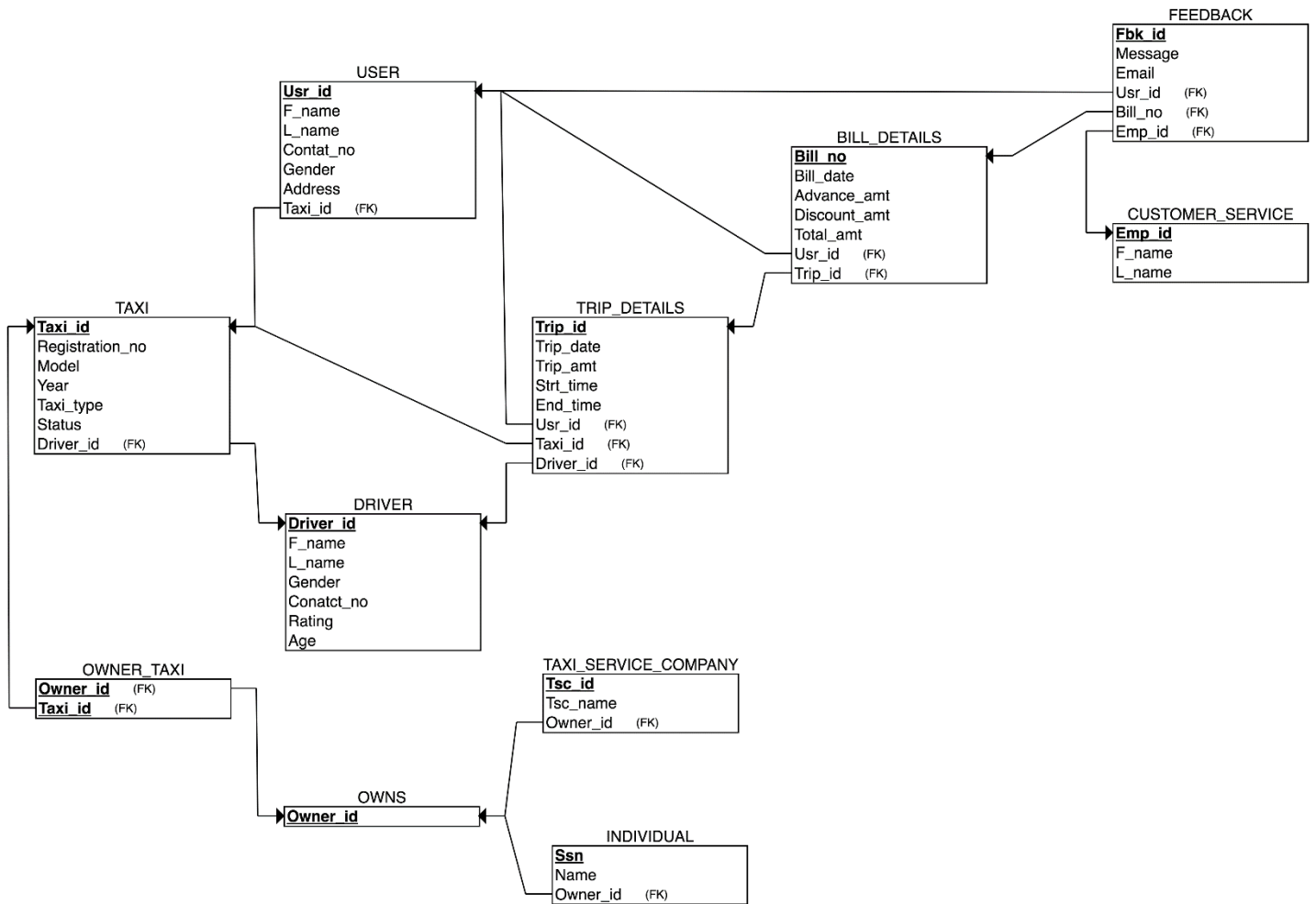
5. ER Diagram:

Blood Bank Management System DATABASE E-R DIAGRAM

12109874



6. SCHEMA Diagram:



7.Database Design:

TABLE

- 1.TAXI
- 2.USER_TBL
- 3.DRIVER
- 4.TRIP_DETAILS
- 5.BILL_DETAILS
- 6.CUSTOMER_SERVICE
- 7.FEEDBACK
- 8.OWNS
- 9.OWNER_TAXI
10. INDIVIDUALS
11. TAXI_SERVICE_COMPANY

8.DDL(Data Definition Language)

Create Tables:- Create Command is used to Create tables in Database.

```
CREATE TABLE TAXI (  
    Taxi_id integer NOT NULL,  
    Registration_no VARCHAR(20),  
    Taxi_Model VARCHAR(20),  
    Taxi_Year DATE,  
    Taxi_type VARCHAR(20),  
    Status VARCHAR(20),  
    Driver_id integer,  
    PRIMARY KEY (Taxi_id),  
    UNIQUE (Registration_no)  
);
```

```
CREATE TABLE USER_TBL (  
    Usr_id integer NOT NULL,  
    F_name VARCHAR(20),  
    L_name VARCHAR(20),  
    Contat_no integer,  
    Gender VARCHAR(10),  
    Address VARCHAR(50),  
    Taxi_id integer,  
    PRIMARY KEY (Usr_id)  
);
```

```
CREATE TABLE DRIVER (  
    Driver_id integer NOT NULL,  
    F_name VARCHAR(10),  
    L_name VARCHAR(20),  
    Gender VARCHAR(10),  
    Conatct_no VARCHAR(20),  
    Rating integer,  
    Age integer,  
    PRIMARY KEY (Driver_id)  
);
```

```
CREATE TABLE TRIP_DETAILS (  
    Trip_id integer NOT NULL,
```

```
Trip_date DATE,  
Trip_amt decimal(10,2),  
Driver_id integer,  
Usr_id integer,  
Taxi_id integer,  
Strt_time TIMESTAMP,  
End_time TIMESTAMP,  
PRIMARY KEY (Trip_id)  
);
```

```
CREATE TABLE BILL_DETAILS (  
    Bill_no integer NOT NULL,  
    Bill_date DATE,  
    Advance_amt decimal(10,2),  
    Discount_amt decimal(10,2),  
    Total_amt decimal(10,2),  
    Usr_id integer,  
    Trip_id integer,  
    PRIMARY KEY (Bill_no),  
    UNIQUE (Trip_id)  
);
```

```
CREATE TABLE CUSTOMER_SERVICE (  
    Emp_id integer NOT NULL,  
    F_name VARCHAR(20),  
    L_name VARCHAR(20),  
    PRIMARY KEY (Emp_id)  
);
```

```
CREATE TABLE FEEDBACK (  
    Fbk_id integer NOT NULL,  
    Message VARCHAR(140),  
    Email VARCHAR(50),  
    Emp_id integer,  
    Usr_id integer,  
    Trip_id integer,  
    PRIMARY KEY (Fbk_id),  
    UNIQUE (Emp_id)  
);
```

```
CREATE TABLE OWNS (  

```

```
Owner_id integer NOT NULL,  
No_Cars integer,  
PRIMARY KEY (Owner_id)  
);  
  
CREATE TABLE OWNER_TAXI (  
    Owner_id integer NOT NULL,  
    Taxi_id integer,  
    PRIMARY KEY (Owner_id, Taxi_id)  
);  
  
CREATE TABLE INDIVIDUAL (  
    Ssn integer NOT NULL,  
    Name VARCHAR(20),  
    Owner_id integer,  
    PRIMARY KEY (Ssn)  
);  
  
CREATE TABLE TAXI_SERVICE_COMPANY (  
    Tsc_id integer NOT NULL,  
    Tsc_name VARCHAR(20),  
    Owner_id integer,  
    PRIMARY KEY (Tsc_id)  
);
```

9.SQL STATEMENTS FOR INSERT COMMANDS

```
INSERT INTO TAXI VALUES(1, 'KA-15R-3367', 'BENZE  
300', to_date('01/01/2017', 'mm/dd/yyyy'), 'SUV', 'Availab  
le', 1)
```

```
INSERT INTO DRIVER  
VALUES(1, 'Abhi', 'Gowda', 'Male', '4693805870', 5, 25);
```

```
INSERT INTO USER_TBL  
VALUES(1, 'USER1', 'LNAME', '123456', 'Male', 'MCCAllum', '1  
' );
```

```
INSERT INTO TRIP_DETAILS  
VALUES(1, to_date('01/01/2017', 'mm/dd/yyyy'), 123, 1, 1, 1,  
TO_TIMESTAMP('2017-01-01 06:14:00', 'YYYY-MM-DD  
HH24:MI:SS'), TO_TIMESTAMP('2017-01-01 08:14:00',  
'YYYY-MM-DD HH24:MI:SS'));
```

```
INSERT INTO BILL_DETAILS  
VALUES(1, to_date('01/01/2017', 'mm/dd/yyyy'), 1000.10, 20  
.11, null, 1, 1);
```

```
INSERT INTO CUSTOMER_SERVICE  
VALUES(1, 'prashuk', 'ajmera');
```

```
INSERT INTO CUSTOMER_SERVICE VALUES(1, 'abhi', 'gowda');
```

```
INSERT INTO FEEDBACK  
VALUES(1, 'good', 'prashuk.ajmera@gmail.com', 1, 1, 1);
```

```
INSERT INTO FEEDBACK VALUES(1,'not so  
good','abhi@gmail.com',1,1,1);
```

```
INSERT INTO OWNS VALUES(1,1);
```

```
INSERT INTO OWNS VALUES(2,1);
```

```
INSERT INTO OWNER_TAXI (1,1);
```

```
INSERT INTO INDIVIDUAL VALUES(123,'abhi owner ind',1);
```

```
INSERT INTO TAXI_SERVICE_COMPANY VALUES (1,'abhi taxi  
comp',2);
```

10.FOREIGN KEY CREATIONS

```
ALTER TABLE TAXI ADD CONSTRAINT fketadr FOREIGN KEY (Driver_id) REFERENCES DRIVER(Driver_id)
ON DELETE CASCADE;
```

```
ALTER TABLE USER_TBL ADD CONSTRAINT fkusta FOREIGN KEY (Taxi_id) REFERENCES TAXI(Taxi_id) ON
DELETE CASCADE;
```

```
ALTER TABLE TRIP_DETAILS ADD CONSTRAINT fktddr FOREIGN KEY (Driver_id) REFERENCES
DRIVER(Driver_id) ON DELETE CASCADE;
```

```
ALTER TABLE TRIP_DETAILS ADD CONSTRAINT fktdustr FOREIGN KEY (Usr_id) REFERENCES
USER_TBL(Usr_id) ON DELETE CASCADE;
```

```
ALTER TABLE TRIP_DETAILS ADD CONSTRAINT fktntax FOREIGN KEY (Taxi_id) REFERENCES
TAXI(Taxi_id) ON DELETE CASCADE;
```

```
ALTER TABLE BILL_DETAILS ADD CONSTRAINT fkbtd FOREIGN KEY (Trip_id) REFERENCES
TRIP_DETAILS(Trip_id) ON DELETE CASCADE;
```

```
ALTER TABLE BILL_DETAILS ADD CONSTRAINT fkbdustr FOREIGN KEY (Usr_id) REFERENCES
USER_TBL(Usr_id) ON DELETE CASCADE;
```

```
ALTER TABLE FEEDBACK ADD CONSTRAINT fkfbemp FOREIGN KEY (Emp_id) REFERENCES
CUSTOMER_SERVICE(Emp_id) ON DELETE CASCADE;
```

```
ALTER TABLE FEEDBACK ADD CONSTRAINT fkfbtd FOREIGN KEY (Trip_id) REFERENCES
TRIP_DETAILS(Trip_id) ON DELETE CASCADE;
```

```
ALTER TABLE FEEDBACK ADD CONSTRAINT fkfbusr FOREIGN KEY (Usr_id) REFERENCES USER_TBL(Usr_id)
ON DELETE CASCADE;
```

```
ALTER TABLE OWNER_TAXI ADD CONSTRAINT fkeowtax FOREIGN KEY (Taxi_id) REFERENCES TAXI(Taxi_id)
ON DELETE CASCADE;
```

```
ALTER TABLE OWNER_TAXI ADD CONSTRAINT fkeowowns FOREIGN KEY (Owner_id) REFERENCES
OWNS(Owner_id) ON DELETE CASCADE;
```

```
ALTER TABLE INDIVIDUAL ADD CONSTRAINT fkeinowns FOREIGN KEY (Owner_id) REFERENCES
OWNS(Owner_id) ON DELETE CASCADE;
```

```
ALTER TABLE TAXI_SERVICE_COMPANY ADD CONSTRAINT fketscowns FOREIGN KEY (Owner_id) REFERENCES
OWNS(Owner_id) ON DELETE CASCADE;
```

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Home > SQL > SQL Commands

AutocommitDisplay10SaveRun

select *from driver

ResultsExplainDescribeSaved SQLHistory

DRIVER_ID	F_NAME	L_NAME	GENDER	CONATCT_NO	RATING	AGE
1	Abhi	Gowda	Male	4693805870	5	25
2	rishi	sharma	Male	4693805870	6	26
3	ronak	basur	Male	4693805470	7	27
4	atul	jain	Male	4693806170	8	28
5	Abhay	sahu	Male	4693894870	9	29
6	sunil	jha	Male	4693807370	10	30
7	sid	mala	Male	4693805640	11	31
8	sudi	pal	Male	4693805870	12	32
9	Abhor	parashar	Male	4913805870	13	33
11	sanjay	sushil	Male	4773805870	15	35

More than 10 rows available. Increase rows selector to view more rows.

10 rows returned in 0.00 secondsCSV Export

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ORACLE Database Express Edition

User: SYSTEM

Home > SQL > SQL Commands

AutocommitDisplay10SaveRun

select *from trip_details

ResultsExplainDescribeSaved SQLHistory

TRIP_ID	TRIP_DATE	TRIP_AMT	DRIVER_ID	USR_ID	TAXI_ID	STRT_TIME	END_TIME
1	01-JAN-17	123	1	1	1	01-JAN-17 06:14:00.000000 AM	01-JAN-17 08:14:00.000000 AM
2	02-JAN-17	123	2	2	2	02-JAN-17 06:15:00.000000 AM	02-JAN-17 08:15:00.000000 AM
3	03-JAN-17	123	3	3	3	03-JAN-17 06:16:00.000000 AM	03-JAN-17 08:16:00.000000 AM
4	04-JAN-17	123	4	4	4	04-JAN-17 06:17:00.000000 AM	04-JAN-17 08:17:00.000000 AM
5	05-JAN-17	123	5	5	5	05-JAN-17 06:18:00.000000 AM	05-JAN-17 08:18:00.000000 AM
6	06-JAN-17	123	6	6	6	06-JAN-17 06:19:00.000000 AM	06-JAN-17 08:19:00.000000 AM
7	07-JAN-17	123	7	7	7	07-JAN-17 06:20:00.000000 AM	07-JAN-17 08:20:00.000000 AM
8	01-JAN-17	123	8	8	8	08-JAN-17 06:21:00.000000 AM	08-JAN-17 08:21:00.000000 AM
9	01-JAN-17	123	9	9	9	09-JAN-17 06:22:00.000000 AM	09-JAN-17 08:22:00.000000 AM
10	01-JAN-17	123	10	10	10	10-JAN-17 06:23:00.000000 AM	10-JAN-17 08:23:00.000000 AM

More than 10 rows available. Increase rows selector to view more rows.

10 rows returned in 0.00 secondsCSV Export

User: SYSTEM

Home > SQL > SQL Commands

☒ Autocommit Display 10 Save Run

select *from bill_details

Results Explain Describe Saved SQL History

BILL_NO	BILL_DATE	ADVANCE_AMT	DISCOUNT_AMT	TOTAL_AMT	USR_ID	TRIP_ID
1	01-JAN-17	1000.1	20.11	-	1	1
24	02-JAN-17	1001.1	20.11	-	2	2
25	03-JAN-17	1002.1	20.11	-	3	3
26	04-JAN-17	1003.1	20.11	-	4	4
27	05-JAN-17	1004.1	20.11	-	5	5
28	06-JAN-17	1005.1	20.11	-	6	6
29	07-JAN-17	1006.1	20.11	-	7	7
30	08-JAN-17	1007.1	20.11	-	8	8
31	09-JAN-17	1008.1	20.11	-	9	9
32	10-JAN-17	1009.1	20.11	-	10	10

More than 10 rows available. Increase rows selector to view more rows.

10 rows returned in 0.00 seconds CSV Export

User: SYSTEM

Home > SQL > SQL Commands

☒ Autocommit Display 10 Save Run

select *from taxi

Results Explain Describe Saved SQL History

TAXI_ID	REGISTRATION_NO	TAXI_MODEL	TAXI_YEAR	TAXI_TYPE	STATUS	DRIVER_ID
1	KA-15R-3367	BENZE 300	01-JAN-17	SUV	Available	1
2	KA-15R-3368	BENZE 301	01-FEB-17	frd	Available	1
3	KA-15R-3369	BENZE 302	01-MAR-17	juv	Available	1
4	KA-15R-3370	BENZE 303	01-APR-17	vse	Available	1
5	KA-15R-3371	BENZE 304	01-MAY-17	gtr	Available	1
6	KA-15R-3372	BENZE 305	01-JUN-17	mju	Available	1
7	KA-15R-3373	BENZE 306	01-JUL-17	kew	Available	1
8	KA-15R-3374	BENZE 307	01-AUG-17	qwe	Available	1
9	KA-15R-3375	BENZE 308	01-SEP-17	asd	Available	1
10	KA-15R-3376	BENZE 309	01-OCT-17	vbn	Available	1

More than 10 rows available. Increase rows selector to view more rows.

10 rows returned in 0.00 seconds CSV Export

11.NORMALIZATION OF RELATIONAL SCHEMA

- TAXI

{Taxi_id ® Registration_no, Taxi_Model, Taxi_Year, Taxi_type, Status}

- USER

{Usr_id ® F_name, L_name, Contat_no, Gender, Address, Taxi_id}

- DRIVER

{Driver_id ® F_name, L_name, Gender, Conatct_no, Rating, Age}

- TRIP_DETAILS

{Trip_id ® Trip_date, Trip_amt, Driver_id, Usr_id, Taxi_id, Strt_time, End_time}

- BILL_DETAILS

{Bill_no ® Bill_date, Advance_amt, Discount_amt, Total_amt, Usr_id, Trip_id}

- CUSTOMER_SERVICE

{Emp_id ® F_name, L_name}

- FEEDBACK

{Fbk_id ® Message, Email, Emp_id, Usr_id, Trip_id}

- OWNER_TAXI

{Owner_id ® Taxi_id}

- OWNS

{Owner_id ® No_Cars}

- INDIVIDUAL

{Ssn ® Name, Owner_id}

- TAXI_SERVICE_COMPANY

{Tsc_id ® Tsc_name, Owner_id}