

# Project Report on DBMS

## Pseudo Taxi Management System

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**Worksheet** | Query Builder

```
--Display Any table

SELECT *
FROM client order by c_id;

SELECT *
FROM vehicle;

SELECT *
```

---

**Query Result x**

SQL | Fetched 50 rows in 0.006 seconds

C_ID	REGNO	CNAME	PREMIUM_PASS	GENDER	EMAIL
1	105 1328450246	Kata	No	F	kdimock18@economist.com
2	106 9681333642	Bella	No	F	bhorsellf@utexas.edu
3	128 3215135463	Yuma	Yes	M	ysantello1@census.gov
4	130 6928406909	Killian	Yes	M	kshowenp@marketwatch.com
5	138 8878389287	Claudius	No	M	cgaskoing@marriott.com
6	150 8663014622	Tracy	No	F	tstapforthlu@bloomberg.com
7	155 5149506392	Alleen	No	F	amocher22@google.com
8	157 3965311655	Duky	Yes	M	dthackelj@studiopress.com
9	186 3016317787	Carroll	Yes	F	cgioanilt@weibo.com
10	190 9381946049	Gilda	No	F	gbyne2c@people.com.cn
11	191 3024973933	Violante	No	F	varnholz2m@usnews.com
12	194 6064183975	Laetitia	No	F	lpillifant10@amazonaws.com
13	198 9719389076	Yvette	Yes	F	yfossett2i@springer.com

---

```
SELECT *
FROM vehicle;

SELECT *
```

---

**Query Result x**

SQL | All Rows Fetched: 30 in 0.004 seconds

D_ID	VNO	MODEL	CATEGORY	FUEL_TYPE	COLOR
1	1WBAYE4C58ED412232	Civic	Sedan	Diesel	Silver
2	2JN1BY1AP6FM597369	Murciélago	Sedan	Diesel	Silver
3	3UUXZW0C50CL033398	V8 Vantage	Sedan	Petrol/CNG	White
4	4KMHFH4JG7FA563745	G5	Hatchback	Diesel	Silver
5	51GYEE637970361878	Sonoma	Sedan	Petrol/CNG	Black
6	6WAUMGBFLXAA270985	Crown Victoria	Hatchback	Petrol/CNG	Silver
7	7WAULT58E32A324068	GTI	SUV	Diesel	Black
8	8WDDLJ7DB4DA650020	Continental	Sedan	Petrol/CNG	Black
9	9WBXPA73414W312174	Mulsanne	SUV	Petrol/CNG	Silver
10	101G6DG8E3XE0579359	S-Series	SUV	Petrol/CNG	Silver
11	11WBALL5C50CJ841482	SLK-Class	SUV	Diesel	White
12	12JM3KE2BE2F0795437	Camaro	Sedan	Petrol/CNG	Black
13	131C3BCBG3CN260144	Viper	Hatchback	Diesel	Silver

```

62
63 SELECT *
64 FROM driver;
65
66 SELECT *

```

Query Result x

SQL | All Rows Fetched: 30 in 0.003 seconds

D_ID	D_NAME	PHONE	VAC_STATUS	ADDRESS
1	1Bartlet	7346274312	single vaccinated	9778 Spohn Way
2	2Augy	2054842255	fully vaccinated	2971 Scoville Road
3	3Juliette	1451789955	single vaccinated	9 Fieldstone Circle
4	4Elvis	4316093595	single vaccinated	62122 Northridge Avenue
5	5Olympie	5283902106	single vaccinated	50 Almo Crossing
6	6Wood	6163429595	fully vaccinated	8606 Leroy Drive
7	7Clyve	6972775797	fully vaccinated	1354 Paget Pass
8	8Teresina	9276737276	single vaccinated	97545 Old Gate Junction
9	9Maury	1682933964	single vaccinated	816 Schiller Plaza
10	10Georgette	5629120639	single vaccinated	79 Marcy Parkway
11	11Maryjo	7493435698	single vaccinated	78637 Ridgeway Trail
12	12Regan	5906280569	fully vaccinated	91 Continental Parkway
13	13Delphinia	4105883476	fully vaccinated	3 Kropf Court

```

65
66 SELECT *
67 FROM cards
68 ORDER BY c_id;
69
70 SELECT *

```

Query Result x

SQL | Fetched 50 rows in 0.007 seconds

C_ID	CARD
1	106 4175006551539149
2	130 372301718189113
3	130 3545445135684242
4	138 5514721243234902
5	150 4313917888292
6	150 3572317592504781
7	157 3589569601312710
8	157 3571910143518655
9	190 3575062466100319
10	190 3533916035439766
11	190 201662486793171
12	191 4405378188782596
13	191 3557066839019512



```

69
70 SELECT *
71 FROM rating;

```

Query Result x

SQL | Fetched 50 rows in 0.015 seconds

	C_ID	D_ID	TYPE	DOR	RATING	COMMENTS
1	407	19	C	21-05-21	3	Cras pellentesque volutpat dui.
2	273	16	C	05-08-21	1	Sed vel enim sit amet nunc viverra dapibus.
3	834	7	D	18-11-21	1	Etiam faucibus cursus urna.
4	532	24	C	22-09-21	5	(null)
5	900	9	C	26-08-21	2	(null)
6	769	21	C	10-02-22	4	Proin eu mi.
7	660	24	D	27-02-22	4	(null)
8	105	29	D	18-11-21	4	(null)
9	841	8	D	14-09-21	1	Phasellus in felis.
10	748	20	D	03-07-21	4	(null)
11	310	14	D	13-06-21	2	(null)
12	428	16	D	16-07-21	3	Maecenas tincidunt lacus at velit.
13	532	25	C	18-01-22	4	(null)
14	186	20	D	20-06-21	5	In blandit ultrices enim.
15	466	10	D	10-04-22	1	(null)
16	420	14	D	26-10-21	1	(null)
17	518	8	D	26-07-21	4	Nullam porttitor lacus at turpis.

```

73 SELECT *
74 FROM pass;

```

Query Result x

SQL | All Rows Fetched: 19 in 0 seconds

	C_ID	PASS_ID	PLAN	VALIDITY
1	478	KU4J77565	Silver	24-04-24
2	340	EA8084708	Silver	05-10-25
3	648	SY8L99272	Silver	25-01-25
4	411	QN9F40636	Platinum	20-01-25
5	360	FB2M22228	Platinum	02-02-26
6	740	QE9Q23775	Platinum	11-05-25
7	130	ST8A14842	Gold	15-11-24
8	549	TM8J50855	Silver	02-09-25
9	441	QM1P77612	Gold	23-10-24
10	823	IJ9M61765	Platinum	17-03-25
11	194	RR9A76874	Platinum	07-06-25
12	941	OP3W71346	Silver	18-05-24
13	674	MB5S16231	Silver	07-09-24
14	530	DH7O19878	Platinum	30-04-26
15	601	IN9J21679	Gold	11-05-24
16	767	WU0A60854	Silver	23-05-24
17	381	LR7T41595	Gold	17-05-25

# Normalization

In Table Client , Credit Card Field is Multi Values Attribute and Requires Normalization, We used Normalization by Decomposition to make a new table cards To store multiple cards

## Normalization by Flattening

C_ID	REGNO	CNAME	PREMIUM_PASS	GENDER	EMAIL	CARD
748	7822181801	Einore	Yes	F	eseagrovezee@goo.ne.jp	3569348449773993
662	4054677728	Benita	No	F	bwhitemarsh2f@spotify.com	5602224281426715
529	5272633716	Verile	Yes	F	vkitcher2h@weebly.com	3567708928253969
529	5272633716	Verile	Yes	F	vkitcher2h@weebly.com	63049232432882595
529	5272633716	Verile	Yes	F	vkitcher2h@weebly.com	3543776666843282
529	5272633716	Verile	Yes	F	vkitcher2h@weebly.com	3588458102842543
980	2262632175	Maryann	Yes	F	mtout2k@sourceforge.net	490554999853707350
980	2262632175	Maryann	Yes	F	mtout2k@sourceforge.net	30171160868868
191	3024973933	Violante	No	F	varnholz2m@usnews.com	3557066839019512
191	3024973933	Violante	No	F	varnholz2m@usnews.com	4405378188782596

## Normalization by Decomposition

C_ID	CARD
106	4175006551539149
130	372301718189113
130	3545445135684242
138	5514721243234902
150	4313917888292
150	3572317592504781
157	3589569601312710
157	3571910143518655
190	3575062466100319
190	3533916035439766
190	201662486793171

C_ID	REGNO	CNAME	PREMIUM_PASS	GENDER	EMAIL
105	1328450246	Kata	No	F	kdimock18@economist.com
106	9681333642	Bella	No	F	bhorsellf@utexas.edu
128	3215135463	Yuma	Yes	M	ysantellol@census.gov
130	6928406909	Killian	Yes	M	kshowenp@marketwatch.com
138	8878389287	Claudius	No	M	cgaskoing@marriott.com
150	8663014622	Tracy	No	F	tstapforthlu@bloomberg.com
155	5149506392	Alleen	No	F	amocher22@google.com
157	3965311655	Duky	Yes	M	dthackelj@studiopress.com
186	3016317787	Carroll	Yes	F	cgioanilt@weibo.com
190	9381946049	Gilda	No	F	gbyne2c@people.com.cn
191	3024973933	Violante	No	F	varnholz2m@usnews.com

# PL SQL Code With Screenshots

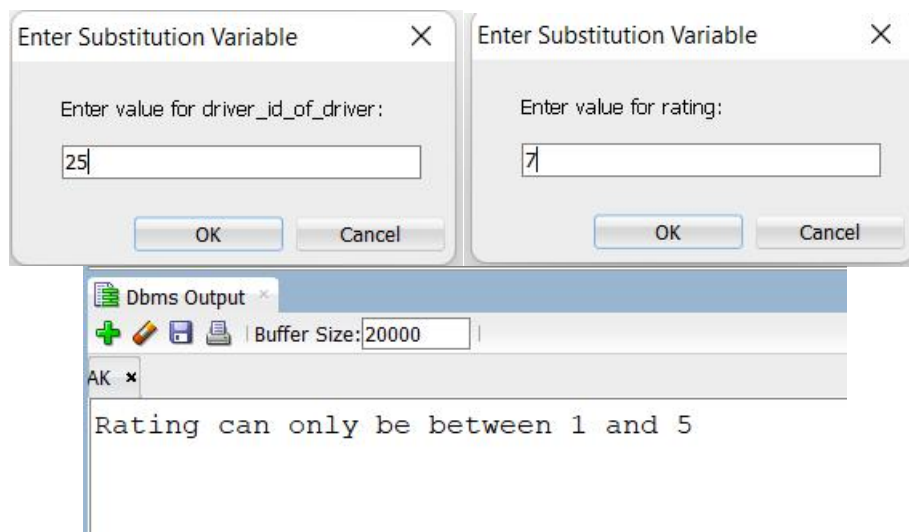
-- \*\*\*\*\* Exception Handling \*\*\*\*\*

--Rate a Driver Program

```
DECLARE
rating_mt5 EXCEPTION;
rat NUMBER;
did NUMBER(2);
driv driver.d_name%TYPE;
BEGIN
did := &driver_id_of_driver;
--SELECT d_name INTO driv FROM driver;
SELECT d_name
INTO driv
FROM driver
WHERE d_id = did;

rat := &rating;
IF rat > 5 OR rat < 1 THEN
    RAISE rating_mt5;
END IF;
dbms_output.put_line('You have Rated '
    || driv
    || ' with '
    || rat
    || ' stars');

EXCEPTION
WHEN too_many_rows THEN
    dbms_output.put_line('TOO MANY ROWS');
WHEN no_data_found THEN
    dbms_output.put_line('NO DATA FOUND');
WHEN rating_mt5 THEN
    dbms_output.put_line('Rating can only be between 1 and 5');
WHEN OTHERS THEN
    dbms_output.put_line('other errors');
END;
```



--\*\*\*\*\*Trigger\*\*\*\*\*

```
CREATE OR REPLACE TRIGGER cl_upper BEFORE
INSERT OR UPDATE OF cname ON client
FOR EACH ROW
BEGIN
:new.cname := upper(:new.cname);
END;
/
update client set cname='akshit';
select* from client;
```

Query Result x   Query Result 1 x   Script Output x   Query Result 2 x						
SQL   Fetched 50 rows in 0 seconds						
	C_ID	REGNO	CNAME	PREMIUM_PASS	GENDER	EMAIL
1	518	4611725379	AKSHIT	No	M	eickovitz0@scribd.com
2	395	3669551214	AKSHIT	No	F	nsimonnet1@dailymotion.com
3	841	4738610255	AKSHIT	Yes	M	rlyosik2@hostgator.com
4	660	1976818351	AKSHIT	No	M	mshakle3@slideshare.net
5	514	7069971163	AKSHIT	Yes	F	rfuente4@ucla.edu
6	869	2779603397	AKSHIT	Yes	F	ksaltman5@topsy.com
7	504	3819753889	AKSHIT	Yes	M	troglieri6@spiegel.de
8	340	4284012932	AKSHIT	No	F	srainger7@bizjournals.com
9	708	7684696026	AKSHIT	Yes	M	nsandford8@yellowbook.com
10	648	6567494507	AKSHIT	Yes	M	gsephton9@arizona.edu
11	310	4107408926	AKSHIT	No	F	ngrinikhinova@patch.com
12	411	9995976931	AKSHIT	No	F	itwemail114@tumblr.com



### --\*\*\*Procedure \*\*\*

```
create or replace procedure end_prem(cid number) as
begin
delete from pass where c_id = cid;
end;
/
declare
d number;
begin
d:=478;
end_prem(d);
end;
/
select* from pass;
```

Before Running Above Code

	⚡ C_ID	⚡ PASS_ID	⚡ PLAN	⚡ VALIDITY
1	478	KU4J77565	Silver	24-04-24
2	340	EA8084708	Silver	05-10-25
3	648	SY8L99272	Silver	25-01-25
4	411	QN9F40636	Platinum	20-01-25

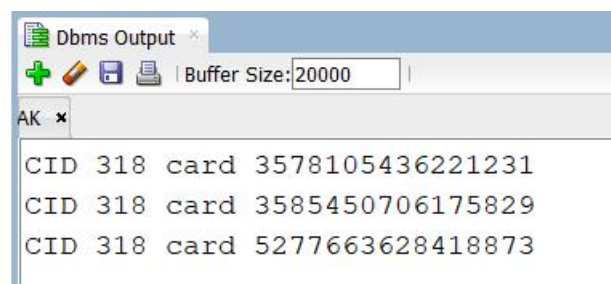
After Running

	⚡ C_ID	⚡ PASS_ID	⚡ PLAN	⚡ VALIDITY
1	340	EA8084708	Silver	05-10-25
2	648	SY8L99272	Silver	25-01-25
3	411	QN9F40636	Platinum	20-01-25
4	360	FB2M22228	Platinum	02-02-26
5	740	QE9Q23775	Platinum	11-05-25

-- \*\*\*\*\*Cursor Handling \*\*\*\*\*

```
DECLARE
  CURSOR c1 IS
  SELECT *
  FROM cards
  WHERE c_id = 318;

BEGIN
  FOR rec IN c1 LOOP
    dbms_output.put_line('CID '
                        || rec.c_id
                        || ' card '
                        || rec.card);
  END LOOP;
END;
```



## Output Screenshots Other Queries

```

77 --Display Drivers with their avg ratings
78 SELECT a.d_id
79      a.d_name
80      round(AVG(b.rating), 2) AS "AVG Rating"
81 FROM driver a,
82      rating b
83 WHERE a.d_id = b.d_id
84       AND b.type = 'D'
85 GROUP BY a.d_id,
86          a.d_name
87 ORDER BY a.d_id;
88

```

Query... x

SQL | All Rows Fetched: 22 in 0.027 seconds

	Driver ID	Driver Name	AVG Rating
1	2	Augy	2
2	4	Elvis	3
3	5	Olympie	1
4	7	Clyve	1.5
5	8	Teresina	3.33
6	9	Maury	4
7	10	Georgette	1.5
8	11	Maryjo	3.17
9	12	Regan	2
10	14	Susanna	2.75
11	15	Yasmin	3
12	16	Aida	4
13	17	Donagh	5
14	20	Annnora	4.25
15	21	Lelia	5
16	22	Pepe	3
17	23	Lynnette	1

```

90 --Display All Drivers With Vehicle Details
91 SELECT a.*,
92        b.*
93 FROM driver a,
94        vehicle b
95 WHERE a.d_id = b.d_id;
96
97

```

Query Result \* x

SQL | All Rows Fetched: 30 in 0.01 seconds

	D_ID	D_NAME	PHONE	VAC_STATUS	ADDRESS	D_ID_1	VNO	MODEL	CATEGORY	FUEL_TYPE	COLOR
1	1	Bartlet	7346274312	single vaccinated	9778 Spohn Way	1	WBAYE4C58ED412232	Civic	Sedan	Diesel	Silver
2	2	Augy	2054842255	fully vaccinated	2971 Scoville Road	2	JN1BY1AP6FM597369	Murciélago	Sedan	Diesel	Silver
3	3	Juliette	1451789955	single vaccinated	9 Fieldstone Circle	3	UXZWC0C50CL033398	V8 Vantage	Sedan	Petrol/CNG	White
4	4	Elvis	4316093595	single vaccinated	62122 Northridge Avenue	4	KMHFH4JG7FA563745	G5	Hatchback	Diesel	Silver
5	5	Olympie	5283902106	single vaccinated	50 Almo Crossing	5	1GYEE637970361878	Sonoma	Sedan	Petrol/CNG	Black
6	6	Wood	6163429595	fully vaccinated	8606 Leroy Drive	6	WAUMGBFLXAA270985	Crown Victoria	Hatchback	Petrol/CNG	Silver
7	7	Clyve	6972775797	fully vaccinated	1354 Paget Pass	7	WAULT58E32A324068	GTI	SUV	Diesel	Black
8	8	Teresina	9276737276	single vaccinated	97545 Old Gate Junction	8	WDDLJ7DB4DA650020	Continental	Sedan	Petrol/CNG	Black
9	9	Maury	1682933964	single vaccinated	816 Schiller Plaza	9	WBXPA73414W312174	Mulsanne	SUV	Petrol/CNG	Silver
10	10	Georgette	5629120639	single vaccinated	79 Marcy Parkway	10	1G6DG8E3XE0579359	S-Series	SUV	Petrol/CNG	Silver
11	11	Maryjo	7493435698	single vaccinated	78637 Ridgeway Trail	11	WBALL5C50CJ841482	SLK-Class	SUV	Diesel	White
12	12	Regan	5906280569	fully vaccinated	91 Continental Parkway	12	JM3KE2BE2F0795437	Camaro	Sedan	Petrol/CNG	Black
13	13	Delphinia	4105883476	fully vaccinated	3 Kropf Court	13	1C3BCB8G3CN260144	Viper	Hatchback	Diesel	Silver
14	14	Susanna	1403951585	fully vaccinated	42310 Bartelt Court	14	2HNYD18602H309482	Passport	SUV	Petrol/CNG	Black
15	15	Yasmin	6664137993	fully vaccinated	3 Logan Plaza	15	3VW507AT8FM728434	tC	Hatchback	Diesel	White
16	16	Aida	9442406360	fully vaccinated	2816 Maywood Junction	16	5GAKVAED6CJ335193	Caravan	Sedan	Petrol/CNG	Black
17	17	Donagh	5478428228	fully vaccinated	2 Fairfield Way	17	WRAYF8C50ED545748	Familia	SUV	Petrol/CNG	Black

## Full Code

```
CREATE TABLE client (  
  c_id    NUMBER PRIMARY KEY,  
  regno   VARCHAR(20),  
  cname   VARCHAR(20),  
  premium_pass VARCHAR(5),  
  gender  CHAR,  
  email   VARCHAR(30)  
);
```

```
CREATE TABLE cards (  
  c_id NUMBER  
    REFERENCES client ( c_id ),  
  card VARCHAR(20)  
);
```

```
CREATE TABLE driver (  
  d_id    NUMBER PRIMARY KEY,  
  d_name  VARCHAR(20),  
  phone   VARCHAR(10),  
  vac_status VARCHAR(20),  
  address VARCHAR(30)  
);
```

```
CREATE TABLE vehicle (  
  d_id    NUMBER PRIMARY KEY  
    REFERENCES driver ( d_id ),  
  vno     VARCHAR(25) UNIQUE,  
  model   VARCHAR(20),  
  category VARCHAR(20),  
  fuel_type VARCHAR(10),  
  color   VARCHAR(20)  
);
```

```
CREATE TABLE pass (  
  c_id    NUMBER  
    REFERENCES client ( c_id ),  
  pass_id VARCHAR(10) PRIMARY KEY,  
  plan    VARCHAR(10),  
  validity DATE  
);
```

```
CREATE TABLE rating (  
  c_id    NUMBER  
    REFERENCES client ( c_id ),  
  d_id    NUMBER  
    REFERENCES driver ( d_id ),  
  type    CHAR,  
  dor     DATE,  
  rating  INT,  
  comments VARCHAR(50)  
);
```

```

insert into client (c_id, cname, regno, premium_pass, gender, email) values (518, 'Elton',
'4611725379', 'No', 'M', 'eickovitz0@scribd.com');
insert into client (c_id, cname, regno, premium_pass, gender, email) values (395, 'Nedda',
'3669551214', 'No', 'F', 'nsimonnet1@dailymotion.com');
insert into client (c_id, cname, regno, premium_pass, gender, email) values (841, 'Roma',
'4738610255', 'Yes', 'M', 'rlyosik2@hostgator.com');
insert into client (c_id, cname, regno, premium_pass, gender, email) values (660, 'Meier',
'1976818351', 'No', 'M', 'mshakle3@slideshare.net');
insert into client (c_id, cname, regno, premium_pass, gender, email) values (514, 'Roanne',
'7069971163', 'Yes', 'F', 'rfuente4@ucla.edu');
insert into client (c_id, cname, regno, premium_pass, gender, email) values (869, 'Kerrin',
'2779603397', 'Yes', 'F', 'ksaltman5@topsy.com');
insert into client (c_id, cname, regno, premium_pass, gender, email) values (504, 'Tiebout',
'3819753889', 'Yes', 'M', 'troglieri6@spiegel.de');
insert into client (c_id, cname, regno, premium_pass, gender, email) values (340, 'Sharia',
'4284012932', 'No', 'F', 'srainger7@bizjournals.com');
insert into client (c_id, cname, regno, premium_pass, gender, email) values (708, 'Niko', '7684696026',
'Yes', 'M', 'nsandford8@yellowbook.com');
insert into client (c_id, cname, regno, premium_pass, gender, email) values (648, 'Gasper',
'6567494507', 'Yes', 'M', 'gsephton9@arizona.edu');
insert into client (c_id, cname, regno, premium_pass, gender, email) values (310, 'Nannette',
'4107408926', 'No', 'F', 'ngrinikhinova@patch.com');
insert into client (c_id, cname, regno, premium_pass, gender, email) values (411, 'Jannel',
'2205879931', 'No', 'F', 'jtremoilleb@stumbleupon.com');
insert into client (c_id, cname, regno, premium_pass, gender, email) values (360, 'Kellia',
'9546271574', 'Yes', 'F', 'kgoric@apache.org');
insert into client (c_id, cname, regno, premium_pass, gender, email) values (740, 'Letisha',
'3703661736', 'No', 'F', 'lhoytd@soup.io');
insert into client (c_id, cname, regno, premium_pass, gender, email) values (273, 'Stevy',
'8133684552', 'No', 'M', 'scosgrovee@cbsnews.com');

```

```

insert into cards (c_id, card) values (360,
'4936828317835077');
insert into cards (c_id, card) values (771,
'5405358479701809');
insert into cards (c_id, card) values (530,
'6334033742445591');
insert into cards (c_id, card) values (478,
'5602215920657538');
insert into cards (c_id, card) values (441,
'633338943922426129');
insert into cards (c_id, card) values (190,
'3533916035439766');
insert into cards (c_id, card) values (557,
'56022518209266110');
insert into cards (c_id, card) values (504,
'5569702618539509');
insert into cards (c_id, card) values (514,
'3582968595835347');
insert into cards (c_id, card) values (130,
'3545445135684242');
insert into cards (c_id, card) values (138,
'5514721243234902');

```



```

insert into driver (d_id, d_name, phone, vac_status, address)
values (1, 'Bartlet', '7346274312', 'single vaccinated', '9778
Spohn Way');
insert into driver (d_id, d_name, phone, vac_status, address)
values (2, 'Augy', '2054842255', 'fully vaccinated', '2971
Scoville Road');
insert into driver (d_id, d_name, phone, vac_status, address)
values (3, 'Juliette', '1451789955', 'single vaccinated', '9
Fieldstone Circle');
insert into driver (d_id, d_name, phone, vac_status, address)
values (4, 'Elvis', '4316093595', 'single vaccinated', '62122
Northridge Avenue');
insert into driver (d_id, d_name, phone, vac_status, address)
values (5, 'Olympie', '5283902106', 'single vaccinated', '50
Almo Crossing');

```

```

insert into pass (c_id, pass_id, plan, validity) values (478,
'KU4J77565', 'Silver', '24-Apr-2024');
insert into pass (c_id, pass_id, plan, validity) values (340,
'EA8084708', 'Silver', '05-Oct-2025');
insert into pass (c_id, pass_id, plan, validity) values (648,
'SY8L99272', 'Silver', '25-Jan-2025');
insert into pass (c_id, pass_id, plan, validity) values (411,
'QN9F40636', 'Platinum', '20-Jan-2025');
insert into pass (c_id, pass_id, plan, validity) values (360,
'FB2M22228', 'Platinum', '02-Feb-2026');
insert into pass (c_id, pass_id, plan, validity) values (740,
'QE9Q23775', 'Platinum', '11-May-2025');
insert into pass (c_id, pass_id, plan, validity) values (130,
'ST8A14842', 'Gold', '15-Nov-2024');
insert into pass (c_id, pass_id, plan, validity) values (549,
'TM8J50855', 'Silver', '02-Sep-2025');
insert into pass (c_id, pass_id, plan, validity) values (441,
'QM1P77612', 'Gold', '23-Oct-2024');
insert into pass (c_id, pass_id, plan, validity) values (823,
'IJ9M61765', 'Platinum', '17-Mar-2025');
insert into pass (c_id, pass_id, plan, validity) values (194,

```

```

insert into rating (c_id, d_id, type, dor, rating, comments)
values (407, 19, 'C', '21-May-2021', 3, 'Cras pellentesque
volutpat dui.');
```

```

insert into rating (c_id, d_id, type, dor, rating, comments)
values (273, 16, 'C', '05-Aug-2021', 1, 'Sed vel enim sit amet
nunc viverra dapibus.');
```

```

insert into rating (c_id, d_id, type, dor, rating, comments)
values (834, 7, 'D', '18-Nov-2021', 1, 'Etiam faucibus cursus
urna.');
```

```

insert into rating (c_id, d_id, type, dor, rating, comments)
values (532, 24, 'C', '22-Sep-2021', 5, null);
insert into rating (c_id, d_id, type, dor, rating, comments)
values (900, 9, 'C', '26-Aug-2021', 2, null);

```

```

insert into rating (c_id, d_id, type, dor, rating, comments)
values (769, 21, 'C', '10-Feb-2022', 4, 'Proin eu mi.');
```

```

insert into rating (c_id, d_id, type, dor, rating, comments)
values (660, 24, 'D', '27-Feb-2022', 4, null);
```

```

insert into rating (c_id, d_id, type, dor, rating, comments)
values (105, 29, 'D', '18-Nov-2021', 4, null);
```

```

insert into rating (c_id, d_id, type, dor, rating, comments)
values (841, 8, 'D', '14-Sep-2021', 1, 'Phasellus in felis.');
```

```

insert into rating (c_id, d_id, type, dor, rating, comments)
values (748, 20, 'D', '03-Jul-2021', 4, null);
```

```

insert into vehicle (d_id, vno, model, category, fuel_type,
color) values (1, 'WBAYE4C58ED412232', 'Civic', 'Sedan',
'Diesel', 'Silver');
```

```

insert into vehicle (d_id, vno, model, category, fuel_type,
color) values (2, 'JN1BY1AP6FM597369', 'Murci  lago', 'Sedan',
'Diesel', 'Silver');
```

```

insert into vehicle (d_id, vno, model, category, fuel_type,
color) values (3, '5UXZW0C50CL033398', 'V8 Vantage', 'Sedan',
'Petrol/CNG', 'White');
```

```

insert into vehicle (d_id, vno, model, category, fuel_type,
color) values (4, 'KMHFH4JG7FA563745', 'G5', 'Hatchback',
'Diesel', 'Silver');
```

```

insert into vehicle (d_id, vno, model, category, fuel_type,
color) values (5, '1GYEE637970361878', 'Sonoma', 'Sedan',
'Petrol/CNG', 'Black');
```

--Display Any table

```

SELECT *
FROM client order by c_id;
```

```

SELECT *
FROM vehicle;
```

```

SELECT *
FROM driver;
```

```

SELECT *
FROM cards
ORDER BY c_id;
```

```

SELECT *
FROM rating;
```

```

SELECT *
FROM pass;
```

--Display Drivers with their avg ratings

```

SELECT a.d_id      "Driver ID",
       a.d_name    "Driver Name",
```

```

        round(AVG(b.rating), 2) AS "AVG Rating"
FROM driver a,
     rating b
WHERE a.d_id = b.d_id
     AND b.type = 'D'
GROUP BY a.d_id,
         a.d_name
ORDER BY a.d_id;

```

```

--Display All Drivers With Vehicle Details
SELECT a.*,
       b.*
FROM driver a,
     vehicle b
WHERE a.d_id = b.d_id;

```

```

-- ***** Exception Handling *****
--Rate a Driver Program
DECLARE
    rating_mt5 EXCEPTION;
    rat NUMBER;
    did NUMBER(2);
    driv driver.d_name%TYPE;
BEGIN
    did := &driver_id_of_driver;
    --SELECT d_name INTO driv FROM driver;
    SELECT d_name
    INTO driv
    FROM driver
    WHERE d_id = did;

    rat := &rating;
    IF rat > 5 OR rat < 1 THEN
        RAISE rating_mt5;
    END IF;
    dbms_output.put_line('You have Rated '
        || driv
        || ' with '
        || rat
        || ' stars');

EXCEPTION
    WHEN too_many_rows THEN
        dbms_output.put_line('TOO MANY ROWS');
    WHEN no_data_found THEN
        dbms_output.put_line('NO DATA FOUND');
    WHEN rating_mt5 THEN
        dbms_output.put_line('Rating can only be between 1 and 5');
    WHEN OTHERS THEN
        dbms_output.put_line('other errors');
END;

```

```

-- *****Cursor Handling *****

```

```
DECLARE
CURSOR c1 IS
SELECT *
FROM cards
WHERE c_id = 318;
```

```
BEGIN
FOR rec IN c1 LOOP
    dbms_output.put_line('CID '
        || rec.c_id
        || ' card '
        || rec.card);
END LOOP;
END;
```

```
--*****Trigger*****
```

```
CREATE OR REPLACE TRIGGER cl_upper BEFORE
INSERT OR UPDATE OF cname ON client
FOR EACH ROW
BEGIN
    :new.cname := upper(:new.cname);
END;
/
update client set cname='akshit';
select* from client;
```

```
--***Procedure ***
```

```
create or replace procedure end_prem(cid number) as
begin
delete from pass where c_id = cid;
end;
/
declare
d number;
begin
d:=478;
end_prem(d);
end;
/
select* from pass;
```