

ASIA PACIFIC COLLEGE
SCHOOL OF COMPUTING AND INFORMATION TECHNOLOGIES

A database system for:
Crown Worldwide Group

In partial fulfillment of requirements in
Database Management 1 (DATAMA1)

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21 September 2019

Contents

I.	2
Introduction	2
Company Profile.....	2
Business Transactions	2
Objectives	2
General Objective	2
Specific Objective	2
Scope and Limitations	3
II.	3
Business Rules	3
Entity Relationship Diagram	4
Relational Diagram	5
III.	6
Tables	6
Data Dictionary	6
Tables with records.....	8
Transactions	8
Insert	8
Update.....	24
Delete.....	39
Select.....	52
Appendices:.....	57
Screen Design for the System Prototype	57
Interviews.....	62
Copy of Company Procedures/Processes	63
References:	64

I.

Introduction

Company Profile

The proponents have chosen Crown Worldwide Group (also known as Crownrelo), as the subject of their DBMS. Crown Worldwide Group is a company that offers logistical and relocation services globally and locally. The company aims to provide quality and service excellence. Crown has five branches: Crown Fine Art, Crown Records Management, Crown Wine Cellars, Crown World Mobility, and Crown Relocations. Many of its business transactions include corporate business, management of workforce, relocations, and security of the items of their clients.

Business Transactions

To avail Crown's services, customers (or clients) will input requests for relocation on their website. The said request will be routed as a lead to a specific lead center, depending on the country of origin. When a lead is generated, the lead center will then get in touch with the clients to gather more information. This is done in order for the lead team to get the proper data to offer the proper services and proper sales team. The sales team will then make a service proposal and try to win the business from the client. Once successful, the client's order(s) will be booked and will be endorsed to the actual field services that will physically handle the relocation.

Objectives

General Objective

- The propose Crown Worldwide Group a Database Management System (DBMS) that can help improve their services.

Specific Objective

- Identify the company's business transactions.
- Create a DBMS and Entity Relationship Diagram based on the company's business procedures/processes.

Scope and Limitations

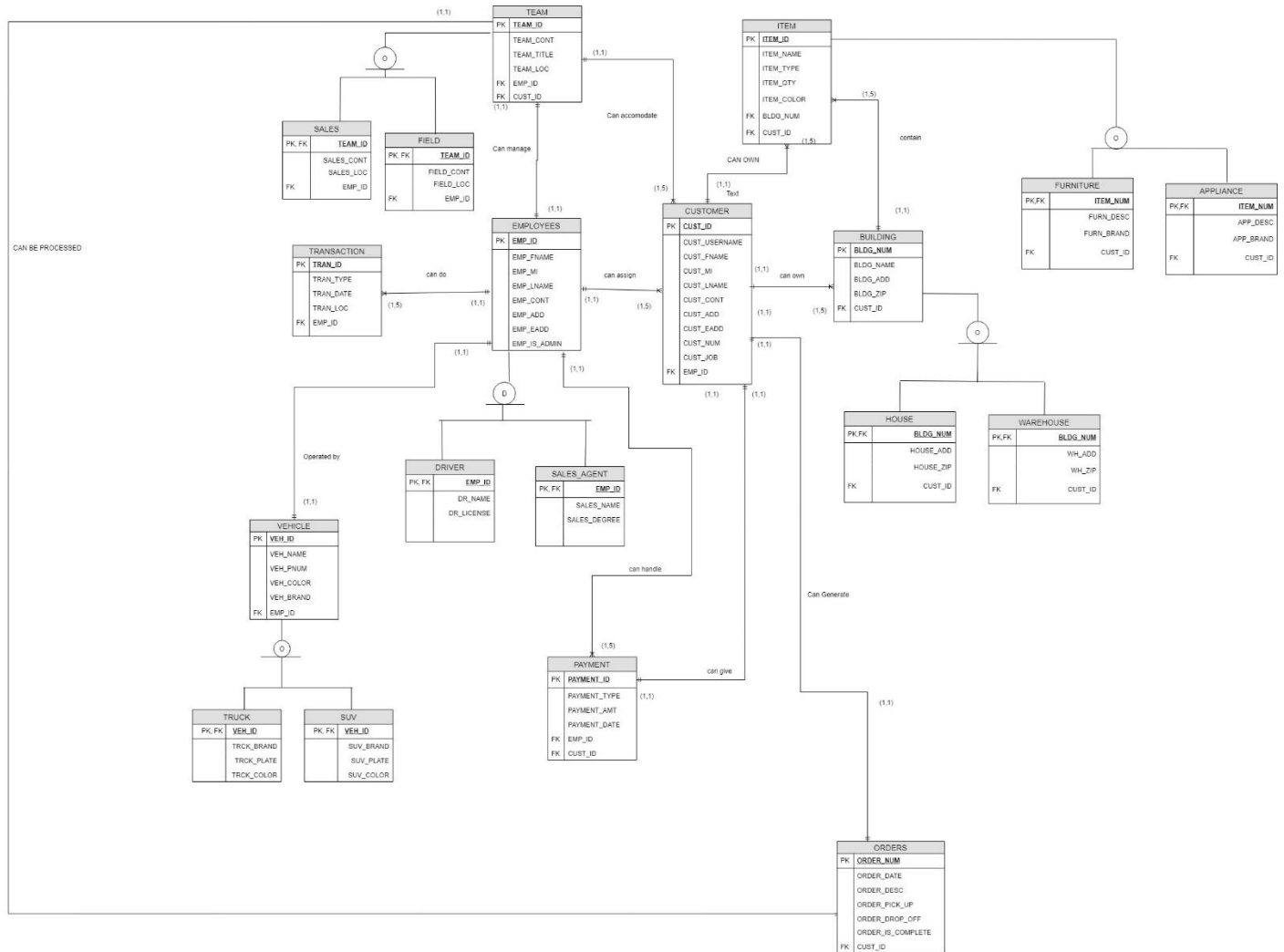
Crown Worldwide Group has offices across the globe; therefore, the proponents will only include business and transactions from Crown's offices in the Philippines. The information for the DBMS and ERD will be coming from an employee that the proponents interviewed. The proponents will also be focusing more towards the Crown Relocations branch, since the aforementioned employee works under said branch.

II.

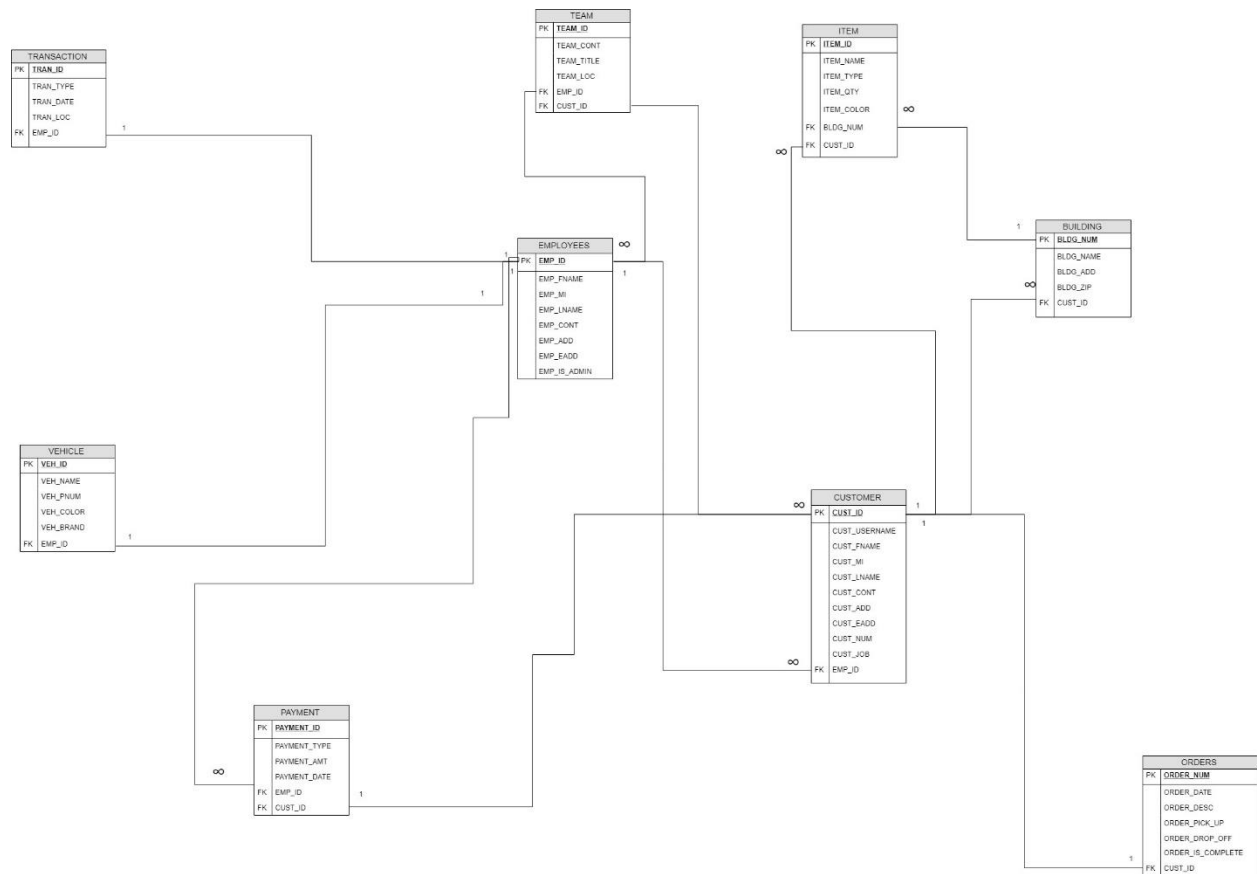
Business Rules

1. An employee can assist many customers. A customer can be assisted by an employee
2. A customer can own many buildings. A building can be owned by a customer.
3. An Employee can do many transactions. A transaction can be done by many employees.
4. A customer can own many items. An item is owned by a customer.
5. A building can contain many items. An item can be contained in a building.
6. A vehicle can be operated by an employee. An employee can operate a single vehicle.
7. A team can be managed by employees. Employees can manage a team.
8. An order can be generated by a customer. A customer can generate an order.
9. A team can accommodate many customers. A customer can be accommodated by a team.
10. An order can be processed by a team. A team can process many orders.
11. An employee can handle payments. A payment is handled by an employee.
12. A customer will give a payment. A payment will be given by a customer.

Entity Relationship Diagram



Relational Diagram



III.

Tables

Data Dictionary

Table	Attribute	Contents	Type	Format	Range	Required	PK or FK	FK Referenced Table
EMPLOYEEES	EMP_ID	Employee ID	Int	9999	1-9999	Y	PK	
	EMP_FNAME	First Name	Varchar	Xxxx		Y		
	EMP_MI	Middle Initial	Varchar	Xxxx		N		
	EMP_LNAME	Last Name	Varchar	Xxxx		Y		
	EMP_CONT	Contact No.	INT	999999	0-1	Y		
	EMP_ADD	Address	Varchar	Xxxxx		Y		
	EMP_EADD	Email Address	varchar	Xxxx		Y		
	EMP_IS_ADMIN	is employee admin?	Boolean	0/1		Y		
CUSTOMER	CUST_ID	Customer ID	Int	9999	1-9999	Y	PK	
	CUST_FNAME	First Name	Varchar	Xxxx		Y		
	CUST_MI	Middle Initial	Varchar	Xxxx		N		
	CUST_LNAME	Last Name	Varchar	Xxxx		Y		
	CUST_CONT	Contact No.	Int	999999		Y		
	CUST_ADD	Address	Varchar	Xxxx		Y		
	CUST_EADD	Email Address	Varchar	Xxxx	1-9999	Y	FK	EMPLOYEE
	CUST_NUM	number	Varchar	Xxxx		N		
	CUST_JOB	Occupation	Varchar	Xxxx		N		
	EMP_ID	Employee ID	int	9999		Y		
ORDERS	ORDER_ID	Order ID	Int	9999	1-9999	Y	PK	
	ORDER_DATE	Date of order	Date	YYYY-MM-DD		Y		
	ORDER_DESC	Description of order	Varchar	Xxxx		Y		
	ORDER_PICK_UP	Pick-up location of order	Varchar	Xxxx		Y		
	ORDER_DROP_OFF	Drop-off location of order	Varchar	Xxxx		Y		
	ORDER_LOC CUST_ID	Order Location Customer ID	Varchar Int	Xxxx 9999	1-9999	Y Y	FK	CUSTOMER
BUILDING	BLDG_ID	Building ID	Int	999	1-9999	Y	PK	
	BLDG_ADD	Building Address	Varchar	Xxxxx		Y		
	BLDG_ZIP	Building Zip Code	Int	9999		Y		
	CUST_ID	Customer ID	int	9999		Y	FK	CUSTOMER

					1-9999			
ITEM	ITEM_ID	Item ID	Int	9999	1-9999	Y	PK	
	ITEM_NAME	Name of item	Varchar	Xxxx		Y		
	ITEM_TYPE	Type of item	Varchar	Xxxx		Y		
	ITEM_QTY	Quantity of item	Int	9999	1-9999	Y		
	BLDG_ID	Building ID	Int	9999	1-9999	Y	FK	BUILDING
	CUST_ID	Customer ID	Int	9999	1-9999	Y	FK	CUSTOMER
TEAM	TEAM_ID	Team ID	Int	9999	1-9999	Y	PK	
	TEAM_CONT	Team contacts	Int	9999		Y		
	TEAM_TITLE	Team name	Varchar	Xxxx		Y		
	TEAM_LOC	Team Location	Varchar	Xxxx		Y		
	CUST_ID	Customer ID	Int	9999	1-9999	Y	FK	CUSTOMER
	EMP_ID	Employee ID	Int	9999	1-9999	Y	FK	EMPLOYEE
VEHICLE	VEH_ID	Vehicle Id	Int	9999		Y	PK	
	VEH_NAME	Vehicle Name	Varchar	Xxxx		Y		
	VEH_PNUM	Plate No.	Varchar	xxx-999		Y		
	VEH_COLOR	Car Color	Varchar	xxxx		Y		
	VEH_BRAND	Car Brand	Varchar	xxxx		Y		
	EMP_ID	Employee Id	Int	9999		Y	FK	EMPLOYEE
TRANSACTION	TRAN_ID	Transaction Id	Int	9999		Y	PK	
	TRAN_TYPE	Type	Varchar	Xxxx		Y		
	TRAN_DATE	Date	Date	YYYY-MM-DD		Y		
	TRAN_LOC	Location	Varchar	MM-DD		Y		
	EMP_ID	Employee ID	Int	Xxxx 9999		Y	FK	EMPLOYEE
PAYMENT	PAYMENT_ID	Payment ID	Int	9999	1-9999	Y	PK	
	PAYMENT_TYPE	Type of Payment	Varchar	Xxxx	1.00-9999.99	Y		
	PAYMENT_AMT	Payment Amount	Decimal	999.99				
	PAYMENT_DATE	Payment Date	Date	YYYY-MM-DD		Y		
	EMP_ID	Employee ID	Int	9999	1-9999	Y	FK	EMPLOYEE
	CUST_ID	Customer ID	int	9999		Y	FK	CUSTOMER

					1-9999			
--	--	--	--	--	--------	--	--	--

Tables with records
Transactions

Insert

Employees

```
MariaDB [case_study_crownrelo]> INSERT INTO employees VALUES ('1','Fiel','M.','Buada','09957591386','Tanza, Cavite','fielbuada@gmail.com','1');
Query OK, 1 row affected, 1 warning (0.089 sec)
```

```
MariaDB [case_study_crownrelo]> select * from employees;
+-----+-----+-----+-----+-----+-----+-----+-----+
| emp_id | emp_fname | emp_mi | emp_lname | emp_cont | emp_add | emp_eadd | emp_is_admin |
+-----+-----+-----+-----+-----+-----+-----+-----+
| 1 | Fiel | M. | Buada | 2147483647 | Tanza, Cavite | fielbuada@gmail.com | 1 |
+-----+-----+-----+-----+-----+-----+-----+-----+
1 row in set (0.001 sec)
```

```
MariaDB [case_study_crownrelo]> INSERT INTO employees VALUES ('2','Joemari','','Boto',622591,'Makati','jboto@yahoo.com',FALSE);
Query OK, 1 row affected (0.162 sec)
```

```
MariaDB [case_study_crownrelo]> select * from employees;
+-----+-----+-----+-----+-----+-----+-----+-----+
| emp_id | emp_fname | emp_mi | emp_lname | emp_cont | emp_add | emp_eadd | emp_is_admin |
+-----+-----+-----+-----+-----+-----+-----+-----+
| 1 | Fiel | M. | Buada | 2147483647 | Tanza, Cavite | fielbuada@gmail.com | 1 |
| 2 | Joemari | | Boto | 622591 | Makati | jboto@yahoo.com | 0 |
+-----+-----+-----+-----+-----+-----+-----+-----+
2 rows in set (0.000 sec)
```

```
MariaDB [case_study_crownrelo]> INSERT INTO employees VALUES ('3','Wish','T.','Mustary','0912345','Taguig','wishmustary@outlook.com',FALSE);
Query OK, 1 row affected (0.060 sec)
```

```
MariaDB [case_study_crownrelo]> select*from employees;
```

emp_id	emp_fname	emp_mi	emp_lname	emp_cont	emp_add	emp_eadd	emp_is_admin
1	Fiel	M.	Buada	2147483647	Tanza, Cavite	fielbuada@gmail.com	1
2	Joemari		Boto	622591	Makati	jboto@yahoo.com	0
3	Wish	T.	Mustary	912345	Taguig	wishmustary@outlook.com	0

```
3 rows in set (0.000 sec)
```

```
MariaDB [case_study_crownrelo]> INSERT INTO employees VALUES ('4','Juan','D.','Cruz','655478','Makati','jdc@gmail.com',TRUE);
Query OK, 1 row affected (0.106 sec)
```

```
MariaDB [case_study_crownrelo]> select*from employees;
```

emp_id	emp_fname	emp_mi	emp_lname	emp_cont	emp_add	emp_eadd	emp_is_admin
1	Fiel	M.	Buada	2147483647	Tanza, Cavite	fielbuada@gmail.com	1
2	Joemari		Boto	622591	Makati	jboto@yahoo.com	0
3	Wish	T.	Mustary	912345	Taguig	wishmustary@outlook.com	0
4	Juan	D.	Cruz	655478	Makati	jdc@gmail.com	1

```
4 rows in set (0.000 sec)
```

```
MariaDB [case_study_crownrelo]> INSERT INTO employees VALUES ('5','Diwel','H.','Herrera','6994583','Manila','dhd@gmail.com',TRUE);
Query OK, 1 row affected (0.085 sec)
```

```
MariaDB [case_study_crownrelo]> select*from employees;
```

emp_id	emp_fname	emp_mi	emp_lname	emp_cont	emp_add	emp_eadd	emp_is_admin
1	Fiel	M.	Buada	2147483647	Tanza, Cavite	fielbuada@gmail.com	1
2	Joemari		Boto	622591	Makati	jboto@yahoo.com	0
3	Wish	T.	Mustary	912345	Taguig	wishmustary@outlook.com	0
4	Juan	D.	Cruz	655478	Makati	jdc@gmail.com	1
5	Diwel	H.	Herrera	6994583	Manila	dhd@gmail.com	1

```
5 rows in set (0.000 sec)
```

Customer

```
MariaDB [case_study_crownrelo]> insert into customer VALUES ( '1','Tin','C.','Marquez','658990','Quezon','pbm@yahoo.com','','','1');
Query OK, 1 row affected, 1 warning (0.058 sec)
```

```
MariaDB [case_study_crownrelo]> select*from customer;
```

cust_id	cust_fname	cust_mi	cust_lname	cust_cont	cust_add	cust_eadd	cust_num	cust_job	emp_id
1	Tin	C.	Marquez	658990	Quezon	pbm@yahoo.com	0		1

1 row in set (0.000 sec)

```
MariaDB [case_study_crownrelo]> insert into customer VALUES ( '2','David','A.','De Guzman','0958741','Pasay','dadg@outlook.com','','Engineer','2');
Query OK, 1 row affected, 1 warning (0.049 sec)
```

```
MariaDB [case_study_crownrelo]> select *from customer;
```

cust_id	cust_fname	cust_mi	cust_lname	cust_cont	cust_add	cust_eadd	cust_num	cust_job	emp_id
1	Tin	C.	Marquez	658990	Quezon	pbm@yahoo.com	0		1
2	David	A.	De Guzman	958741	Pasay	dadg@outlook.com	0	Engineer	2

2 rows in set (0.000 sec)

```
MariaDB [case_study_crownrelo]> insert into customer VALUES ( '3','Pedro','','Penduko','666999','Pasay','pandab@outlook.com','555','Security Guard','3');
Query OK, 1 row affected (0.051 sec)

MariaDB [case_study_crownrelo]> select*from customer;
+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
| cust_id | cust_fname | cust_mi | cust_lname | cust_cont | cust_add | cust_eadd | cust_num | cust_job | emp_id |
+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
| 1 | Tin | C. | Marquez | 658990 | Quezon | pbm@yahoo.com | 0 |  | 1 |
| 2 | David | A. | De Guzman | 958741 | Pasay | dadg@outlook.com | 0 | Engineer | 2 |
| 3 | Pedro |  | Penduko | 666999 | Pasay | pandab@outlook.com | 555 | Security Guard | 3 |
+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
3 rows in set (0.001 sec)
```

```
MariaDB [case_study_crownrelo]> insert into customer VALUES ( '4','Khina','C','Herrera','859642','Manila','Kyou@gmail.com','','Teacher','4');
Query OK, 1 row affected, 1 warning (0.174 sec)

MariaDB [case_study_crownrelo]> select*from customer;
+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
| cust_id | cust_fname | cust_mi | cust_lname | cust_cont | cust_add | cust_eadd | cust_num | cust_job | emp_id |
+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
| 1 | Tin | C. | Marquez | 658990 | Quezon | pbm@yahoo.com | 0 |  | 1 |
| 2 | David | A. | De Guzman | 958741 | Pasay | dadg@outlook.com | 0 | Engineer | 2 |
| 3 | Pedro |  | Penduko | 666999 | Pasay | pandab@outlook.com | 555 | Security Guard | 3 |
| 4 | Khina | C | Herrera | 859642 | Manila | Kyou@gmail.com | 0 | Teacher | 4 |
+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
4 rows in set (0.000 sec)
```

```
MariaDB [case_study_crownrelo]> insert into customer VALUES ( '5','Maria','','Sta. Ana','0923561','Manila','maria24@gmail.com','','Teacher','5');
Query OK, 1 row affected, 1 warning (0.058 sec)

MariaDB [case_study_crownrelo]> select*from customer;
+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
| cust_id | cust_fname | cust_mi | cust_lname | cust_cont | cust_add | cust_eadd | cust_num | cust_job | emp_id |
+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
| 1 | Tin | C. | Marquez | 658990 | Quezon | pbm@yahoo.com | 0 |  | 1 |
| 2 | David | A. | De Guzman | 958741 | Pasay | dadg@outlook.com | 0 | Engineer | 2 |
| 3 | Pedro |  | Penduko | 666999 | Pasay | pandab@outlook.com | 555 | Security Guard | 3 |
| 4 | Khina | C | Herrera | 859642 | Manila | Kyou@gmail.com | 0 | Teacher | 4 |
| 5 | Maria |  | Sta. Ana | 923561 | Manila | maria24@gmail.com | 0 | Teacher | 5 |
+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
5 rows in set (0.000 sec)
```

Orders

```
MariaDB [case_study_crownrelo]> INSERT INTO orders VALUES(
  -> '1','2019-09-21','relocation','Makati','Taguig','Pasay','1');
Query OK, 1 row affected (0.149 sec)
```

```
MariaDB [case_study_crownrelo]> select*from orders;
```

order_id	order_date	order_desc	order_pick_up	order_drop_off	order_loc	cust_id
1	2019-09-21	relocation	Makati	Taguig	Pasay	1

1 row in set (0.000 sec)

```
MariaDB [case_study_crownrelo]> insert into orders values ('2','2019-01-24','relocation','Pasay','Taguig','Taguig','3');
Query OK, 1 row affected (0.119 sec)
```

```
MariaDB [case_study_crownrelo]> select* from orders;
```

order_id	order_date	order_desc	order_pick_up	order_drop_off	order_loc	cust_id
1	2019-09-21	relocation	Makati	Taguig	Pasay	1
2	2019-01-24	relocation	Pasay	Taguig	Taguig	3

2 rows in set (0.000 sec)

```
MariaDB [case_study_crownrelo]> insert into orders values ('3','2019-08-15','logistics','Makati','Makati','Makati','3');
Query OK, 1 row affected (0.044 sec)
```

```
MariaDB [case_study_crownrelo]> select* from orders;
```

order_id	order_date	order_desc	order_pick_up	order_drop_off	order_loc	cust_id
1	2019-09-21	relocation	Makati	Taguig	Pasay	1
2	2019-01-24	relocation	Pasay	Taguig	Taguig	3
3	2019-08-15	logistics	Makati	Makati	Makati	3

3 rows in set (0.000 sec)

```
MariaDB [case_study_crownrelo]> select* from orders;
```

order_id	order_date	order_desc	order_pick_up	order_drop_off	order_loc	cust_id
1	2019-09-21	relocation	Makati	Taguig	Pasay	1
2	2019-01-24	relocation	Pasay	Taguig	Taguig	3
3	2019-08-15	logistics	Makati	Makati	Makati	3
4	2019-08-15	relocation	Makati	Makati	Makati	2

```
4 rows in set (0.000 sec)
```

```
MariaDB [case_study_crownrelo]> insert into orders values ('5','2019-09-22','relocation','Taguig','Quezon','Taguig','5');
Query OK, 1 row affected (0.029 sec)
```

```
MariaDB [case_study_crownrelo]> select* from orders;
```

order_id	order_date	order_desc	order_pick_up	order_drop_off	order_loc	cust_id
1	2019-09-21	relocation	Makati	Taguig	Pasay	1
2	2019-01-24	relocation	Pasay	Taguig	Taguig	3
3	2019-08-15	logistics	Makati	Makati	Makati	3
4	2019-08-15	relocation	Makati	Makati	Makati	2
5	2019-09-22	relocation	Taguig	Quezon	Taguig	5

```
5 rows in set (0.000 sec)
```

Building

```
MariaDB [case_study_crownrelo]> INSERT INTO building VALUES ('1','Pasay','1300','1');
Query OK, 1 row affected (0.052 sec)
```

```
MariaDB [case_study_crownrelo]> select * from building;
```

bldg_id	bldg_add	bldg_zip	cust_id
1	Pasay	1300	1

```
1 row in set (0.000 sec)
```

```
MariaDB [case_study_crownrelo]> INSERT INTO building VALUES ('2','Taguig','1630','2');
Query OK, 1 row affected (0.078 sec)
```

```
MariaDB [case_study_crownrelo]> select * from building;
```

```
+-----+-----+-----+-----+
| bldg_id | bldg_add | bldg_zip | cust_id |
+-----+-----+-----+-----+
|      1 | Pasay   |    1300 |      1 |
|      2 | Taguig  |    1630 |      2 |
+-----+-----+-----+-----+
2 rows in set (0.000 sec)
```

```
MariaDB [case_study_crownrelo]> INSERT INTO building VALUES ('3','Makati','1233','3');
Query OK, 1 row affected (0.048 sec)
```

```
MariaDB [case_study_crownrelo]> select * from building;
```

```
+-----+-----+-----+-----+
| bldg_id | bldg_add | bldg_zip | cust_id |
+-----+-----+-----+-----+
|      1 | Pasay   |    1300 |      1 |
|      2 | Taguig  |    1630 |      2 |
|      3 | Makati  |    1233 |      3 |
+-----+-----+-----+-----+
3 rows in set (0.000 sec)
```

```
MariaDB [case_study_crownrelo]> select*from building;
```

```
+-----+-----+-----+-----+
| bldg_id | bldg_add | bldg_zip | cust_id |
+-----+-----+-----+-----+
|      1 | Pasay   |    1300 |      1 |
|      2 | Taguig  |    1630 |      2 |
|      3 | Makati  |    1233 |      3 |
|      4 | Makati  |    1220 |      4 |
+-----+-----+-----+-----+
4 rows in set (0.000 sec)
```

```
MariaDB [case_study_crownrelo]> INSERT INTO building VALUES ('5','Pasay','1300','5');
Query OK, 1 row affected (0.072 sec)
```

```
MariaDB [case_study_crownrelo]> select*from building;
```

bldg_id	bldg_add	bldg_zip	cust_id
1	Pasay	1300	1
2	Taguig	1630	2
3	Makati	1233	3
4	Makati	1220	4
5	Pasay	1300	5

```
5 rows in set (0.000 sec)
```

Item

```
MariaDB [case_study_crownrelo]> insert into item values('1','sofa','furniture','3','1','2');
Query OK, 1 row affected (0.180 sec)
```

```
MariaDB [case_study_crownrelo]> select*from item;
```

item_id	item_name	item_type	item_qty	bldg_id	cust_id
1	sofa	furniture	3	1	2

```
1 row in set (0.000 sec)
```

```
MariaDB [case_study_crownrelo]> insert into item values('2','T.V','appliance','1','2','1');
Query OK, 1 row affected (0.079 sec)
```

```
MariaDB [case_study_crownrelo]> select*from item;
```

item_id	item_name	item_type	item_qty	bldg_id	cust_id
1	sofa	furniture	3	1	2
2	T.V	appliance	1	2	1

```
2 rows in set (0.000 sec)
```



```
MariaDB [case_study_crownrelo]> insert into item values('3','RTW clothes','apparel','100','3','3');
Query OK, 1 row affected (0.213 sec)
```

```
MariaDB [case_study_crownrelo]> select*from item;
```

```
+-----+-----+-----+-----+-----+-----+
| item_id | item_name | item_type | item_qty | bldg_id | cust_id |
+-----+-----+-----+-----+-----+-----+
| 1 | sofa | furniture | 3 | 1 | 2 |
| 2 | T.V | appliance | 1 | 2 | 1 |
| 3 | RTW clothes | apparel | 100 | 3 | 3 |
+-----+-----+-----+-----+-----+-----+
3 rows in set (0.000 sec)
```

```
MariaDB [case_study_crownrelo]> insert into item values('4','painting','art','5','4','4');
Query OK, 1 row affected (0.074 sec)
```

```
MariaDB [case_study_crownrelo]> select*from item;
```

```
+-----+-----+-----+-----+-----+-----+
| item_id | item_name | item_type | item_qty | bldg_id | cust_id |
+-----+-----+-----+-----+-----+-----+
| 1 | sofa | furniture | 3 | 1 | 2 |
| 2 | T.V | appliance | 1 | 2 | 1 |
| 3 | RTW clothes | apparel | 100 | 3 | 3 |
| 4 | painting | art | 5 | 4 | 4 |
+-----+-----+-----+-----+-----+-----+
4 rows in set (0.000 sec)
```

```
MariaDB [case_study_crownrelo]> insert into item values('5','encyclopedia','book','21','5','5');
Query OK, 1 row affected (0.044 sec)
```

```
MariaDB [case_study_crownrelo]> select*from item;
```

```
+-----+-----+-----+-----+-----+-----+
| item_id | item_name | item_type | item_qty | bldg_id | cust_id |
+-----+-----+-----+-----+-----+-----+
| 1 | sofa | furniture | 3 | 1 | 2 |
| 2 | T.V | appliance | 1 | 2 | 1 |
| 3 | RTW clothes | apparel | 100 | 3 | 3 |
| 4 | painting | art | 5 | 4 | 4 |
| 5 | encyclopedia | book | 21 | 5 | 5 |
+-----+-----+-----+-----+-----+-----+
5 rows in set (0.000 sec)
```

Team

```
MariaDB [case_study_crownrelo]> insert into team VALUES ('1','0909546','sales','1','1')
-> ;
Query OK, 1 row affected (0.083 sec)
```

```
MariaDB [case_study_crownrelo]> select*from team;
+-----+-----+-----+-----+-----+
| team_id | team_cont | team_title | cust_id | emp_id |
+-----+-----+-----+-----+-----+
|      1 |    909546 | sales      |      1 |      1 |
+-----+-----+-----+-----+-----+
1 row in set (0.000 sec)
```

```
MariaDB [case_study_crownrelo]> insert into team VALUES ('2','665897','field team','1','2');
Query OK, 1 row affected (0.058 sec)
```

```
MariaDB [case_study_crownrelo]> select*from team;
+-----+-----+-----+-----+-----+
| team_id | team_cont | team_title | cust_id | emp_id |
+-----+-----+-----+-----+-----+
|      1 |    909546 | sales      |      1 |      1 |
|      2 |    665897 | field team |      1 |      2 |
+-----+-----+-----+-----+-----+
2 rows in set (0.000 sec)
```

```
MariaDB [case_study_crownrelo]> insert into team VALUES ('3','0995832','public relations','3','3');
Query OK, 1 row affected (0.017 sec)
```

```
MariaDB [case_study_crownrelo]> select*from team;
+-----+-----+-----+-----+-----+
| team_id | team_cont | team_title      | cust_id | emp_id |
+-----+-----+-----+-----+-----+
|      1 |    909546 | sales           |      1 |      1 |
|      2 |    665897 | field team      |      1 |      2 |
|      3 |    995832 | public relations |      3 |      3 |
+-----+-----+-----+-----+-----+
3 rows in set (0.000 sec)
```

```
MariaDB [case_study_crownrelo]> insert into team VALUES ('4','6910047','accounting','4','5');
Query OK, 1 row affected (0.048 sec)
```

```
MariaDB [case_study_crownrelo]> select*from team;
+-----+-----+-----+-----+-----+
| team_id | team_cont | team_title | cust_id | emp_id |
+-----+-----+-----+-----+-----+
| 1 | 909546 | sales | 1 | 1 |
| 2 | 665897 | field team | 1 | 2 |
| 3 | 995832 | public relations | 3 | 3 |
| 4 | 6910047 | accounting | 4 | 5 |
+-----+-----+-----+-----+-----+
4 rows in set (0.000 sec)
```

```
MariaDB [case_study_crownrelo]> insert into team VALUES ('5','691003','human relations','5','5');
Query OK, 1 row affected (0.043 sec)
```

```
MariaDB [case_study_crownrelo]> select*from team;
+-----+-----+-----+-----+-----+
| team_id | team_cont | team_title | cust_id | emp_id |
+-----+-----+-----+-----+-----+
| 1 | 909546 | sales | 1 | 1 |
| 2 | 665897 | field team | 1 | 2 |
| 3 | 995832 | public relations | 3 | 3 |
| 4 | 6910047 | accounting | 4 | 5 |
| 5 | 691003 | human relations | 5 | 5 |
+-----+-----+-----+-----+-----+
5 rows in set (0.000 sec)
```

Vehicle

```
MariaDB [case_study_crownrelo]> insert into vehicle VALUES ('1','Bandito','ABC-123','White','Ford','1');
Query OK, 1 row affected (0.100 sec)
```

```
MariaDB [case_study_crownrelo]> select*from vehicle;
+-----+-----+-----+-----+-----+
| veh_id | veh_name | veh_pnum | veh_color | veh_brand | emp_id |
+-----+-----+-----+-----+-----+
| 1 | Bandito | ABC-123 | White | Ford | 1 |
+-----+-----+-----+-----+-----+
1 row in set (0.000 sec)
```

```
MariaDB [case_study_crownrelo]> insert into vehicle VALUES ('2','Hiace','DEF-456','Black','Toyota','2');
Query OK, 1 row affected (0.068 sec)
```

```
MariaDB [case_study_crownrelo]> select*from vehicle;
```

```
+-----+-----+-----+-----+-----+-----+
| veh_id | veh_name | veh_pnum | veh_color | veh_brand | emp_id |
+-----+-----+-----+-----+-----+-----+
|      1 | Bandito  | ABC-123  | White    | Ford      |      1 |
|      2 | Hiace    | DEF-456  | Black    | Toyota    |      2 |
+-----+-----+-----+-----+-----+-----+
2 rows in set (0.000 sec)
```

```
MariaDB [case_study_crownrelo]> insert into vehicle VALUES ('3','Cher','GHI-789','Gray','Hyundai','3');
Query OK, 1 row affected (0.048 sec)
```

```
MariaDB [case_study_crownrelo]> select*from vehicle;
```

```
+-----+-----+-----+-----+-----+-----+
| veh_id | veh_name | veh_pnum | veh_color | veh_brand | emp_id |
+-----+-----+-----+-----+-----+-----+
|      1 | Bandito  | ABC-123  | White    | Ford      |      1 |
|      2 | Hiace    | DEF-456  | Black    | Toyota    |      2 |
|      3 | Cher     | GHI-789  | Gray     | Hyundai   |      3 |
+-----+-----+-----+-----+-----+-----+
3 rows in set (0.000 sec)
```

```
MariaDB [case_study_crownrelo]> insert into vehicle VALUES ('4','Innova','JKL-012','Gray','Toyota','4');
Query OK, 1 row affected (0.058 sec)
```

```
MariaDB [case_study_crownrelo]> select*from vehicle;
```

```
+-----+-----+-----+-----+-----+-----+
| veh_id | veh_name | veh_pnum | veh_color | veh_brand | emp_id |
+-----+-----+-----+-----+-----+-----+
|      1 | Bandito  | ABC-123  | White    | Ford      |      1 |
|      2 | Hiace    | DEF-456  | Black    | Toyota    |      2 |
|      3 | Cher     | GHI-789  | Gray     | Hyundai   |      3 |
|      4 | Innova   | JKL-012  | Gray     | Toyota    |      4 |
+-----+-----+-----+-----+-----+-----+
4 rows in set (0.000 sec)
```

```
MariaDB [case_study_crownrelo]> insert into vehicle VALUES ('5','Pajero','NHI-245','Red','Mitsubishi','5');
Query OK, 1 row affected (0.051 sec)
```

```
MariaDB [case_study_crownrelo]> select*from vehicle;
```

```
+-----+-----+-----+-----+-----+-----+
| veh_id | veh_name | veh_pnum | veh_color | veh_brand | emp_id |
+-----+-----+-----+-----+-----+-----+
|      1 | Bandito  | ABC-123  | White    | Ford      |      1 |
|      2 | Hiace    | DEF-456  | Black    | Toyota    |      2 |
|      3 | Cher     | GHI-789  | Gray     | Hyundai   |      3 |
|      4 | Innova   | JKL-012  | Gray     | Toyota    |      4 |
|      5 | Pajero   | NHI-245  | Red      | Mitsubishi|      5 |
+-----+-----+-----+-----+-----+-----+
5 rows in set (0.000 sec)
```

Transaction

```
MariaDB [case_study_crownrelo]> insert into transaction VALUES('1','payment','2019-02-20','Taguig','1');
Query OK, 1 row affected (0.090 sec)
```

```
MariaDB [case_study_crownrelo]> select*from transaction;
```

```
+-----+-----+-----+-----+-----+
| tran_id | tran_type | tran_date | tran_loc | emp_id |
+-----+-----+-----+-----+-----+
|      1 | payment  | 2019-02-20 | Taguig   |      1 |
+-----+-----+-----+-----+-----+
1 row in set (0.000 sec)
```

```
MariaDB [case_study_crownrelo]> insert into transaction VALUES('2','relocation','2019-08-18','Manila','2');
Query OK, 1 row affected (0.154 sec)
```

```
MariaDB [case_study_crownrelo]> select*from transaction;
```

```
+-----+-----+-----+-----+-----+
| tran_id | tran_type | tran_date | tran_loc | emp_id |
+-----+-----+-----+-----+-----+
|      1 | payment  | 2019-02-20 | Taguig   |      1 |
|      2 | relocation| 2019-08-18 | Manila   |      2 |
+-----+-----+-----+-----+-----+
2 rows in set (0.000 sec)
```

```
MariaDB [case_study_crownrelo]> insert into transaction VALUES('3','relocation','2019-08-18','Manila','3');
Query OK, 1 row affected (0.058 sec)
```

```
MariaDB [case_study_crownrelo]> select*from transaction;
```

tran_id	tran_type	tran_date	tran_loc	emp_id
1	payment	2019-02-20	Taguig	1
2	relocation	2019-08-18	Manila	2
3	relocation	2019-08-18	Manila	3

3 rows in set (0.000 sec)

```
MariaDB [case_study_crownrelo]> insert into transaction VALUES('4','payment','2019-09-01','Pasay','4');
Query OK, 1 row affected (0.070 sec)
```

```
MariaDB [case_study_crownrelo]> select*from transaction;
```

tran_id	tran_type	tran_date	tran_loc	emp_id
1	payment	2019-02-20	Taguig	1
2	relocation	2019-08-18	Manila	2
3	relocation	2019-08-18	Manila	3
4	payment	2019-09-01	Pasay	4

4 rows in set (0.000 sec)

```
MariaDB [case_study_crownrelo]> insert into transaction VALUES('5','payment','2019-09-23','Makati','5');
Query OK, 1 row affected (0.036 sec)
```

```
MariaDB [case_study_crownrelo]> select*from transaction;
```

tran_id	tran_type	tran_date	tran_loc	emp_id
1	payment	2019-02-20	Taguig	1
2	relocation	2019-08-18	Manila	2
3	relocation	2019-08-18	Manila	3
4	payment	2019-09-01	Pasay	4
5	payment	2019-09-23	Makati	5

```
5 rows in set (0.000 sec)
```

Payment

```
MariaDB [case_study_crownrelo]> insert into payment values ('1','cash','9999.99','2019-02-20','1','1');
Query OK, 1 row affected (0.093 sec)
```

```
MariaDB [case_study_crownrelo]> select*from payment;
```

payment_id	payment_type	payment_amt	payment_date	emp_id	cust_id
1	cash	9999.99	2019-02-20	1	1

```
1 row in set (0.000 sec)
```

```
MariaDB [case_study_crownrelo]> insert into payment values ('2','debit','10500.00','2019-08-24','1','2');
Query OK, 1 row affected, 1 warning (0.095 sec)
```

```
MariaDB [case_study_crownrelo]> select*from payment;
```

payment_id	payment_type	payment_amt	payment_date	emp_id	cust_id
1	cash	9999.99	2019-02-20	1	1
2	debit	9999.99	2019-08-24	1	2

```
2 rows in set (0.000 sec)
```

```
MariaDB [case_study_crownrelo]> insert into payment values ('3','credit','5250.75','2019-08-18','3','3');
Query OK, 1 row affected (0.141 sec)
```

```
MariaDB [case_study_crownrelo]> select*from payment;
```

payment_id	payment_type	payment_amt	payment_date	emp_id	cust_id
1	cash	9999.99	2019-02-20	1	1
2	debit	9999.99	2019-08-24	1	2
3	credit	5250.75	2019-08-18	3	3

```
3 rows in set (0.000 sec)
```

```
MariaDB [case_study_crownrelo]> insert into payment values ('4','cash','2000.00','2019-09-02','4','4');
Query OK, 1 row affected (0.046 sec)
```

```
MariaDB [case_study_crownrelo]> select*from payment;
```

payment_id	payment_type	payment_amt	payment_date	emp_id	cust_id
1	cash	9999.99	2019-02-20	1	1
2	debit	9999.99	2019-08-24	1	2
3	credit	5250.75	2019-08-18	3	3
4	cash	2000.00	2019-09-02	4	4

```
4 rows in set (0.000 sec)
```

```
MariaDB [case_study_crownrelo]> insert into payment values ('5','cash','1050.00','2019-09-21','5','5');
Query OK, 1 row affected (0.044 sec)
```

```
MariaDB [case_study_crownrelo]> select*from payment;
```

payment_id	payment_type	payment_amt	payment_date	emp_id	cust_id
1	cash	9999.99	2019-02-20	1	1
2	debit	9999.99	2019-08-24	1	2
3	credit	5250.75	2019-08-18	3	3
4	cash	2000.00	2019-09-02	4	4
5	cash	1050.00	2019-09-21	5	5

```
5 rows in set (0.000 sec)
```


Update

Employees

```
MariaDB [case_study_crownrelo]> UPDATE employees set emp_eadd = 'fielmb@gmail.com' where emp_id = '1';
Query OK, 1 row affected (0.042 sec)
Rows matched: 1 Changed: 1 Warnings: 0

MariaDB [case_study_crownrelo]> select*from employees;
+-----+-----+-----+-----+-----+-----+-----+-----+
| emp_id | emp_fname | emp_mi | emp_lname | emp_cont | emp_add | emp_eadd | emp_is_admin |
+-----+-----+-----+-----+-----+-----+-----+-----+
| 1 | Fiel | M. | Buada | 2147483647 | Tanza, Cavite | fielmb@gmail.com | 1 |
| 2 | Joemari | | Boto | 622591 | Makati | jboto@yahoo.com | 0 |
| 3 | Wish | T. | Mustary | 912345 | Taguig | wishmustary@outlook.com | 0 |
| 4 | Juan | D. | Cruz | 655478 | Makati | jdc@gmail.com | 1 |
| 5 | Diwel | H. | Herrera | 6994583 | Manila | dhd@gmail.com | 1 |
+-----+-----+-----+-----+-----+-----+-----+-----+
5 rows in set (0.000 sec)
```

```
MariaDB [case_study_crownrelo]> UPDATE employees set emp_cont = '655489' where emp_is_admin = '0';
Query OK, 2 rows affected (0.060 sec)
Rows matched: 2 Changed: 2 Warnings: 0

MariaDB [case_study_crownrelo]> select*from employees;
+-----+-----+-----+-----+-----+-----+-----+-----+
| emp_id | emp_fname | emp_mi | emp_lname | emp_cont | emp_add | emp_eadd | emp_is_admin |
+-----+-----+-----+-----+-----+-----+-----+-----+
| 1 | Fiel | M. | Buada | 2147483647 | Tanza, Cavite | fielmb@gmail.com | 1 |
| 2 | Joemari | | Boto | 655489 | Makati | jboto@yahoo.com | 0 |
| 3 | Wish | T. | Mustary | 655489 | Taguig | wishmustary@outlook.com | 0 |
| 4 | Juan | D. | Cruz | 655478 | Makati | jdc@gmail.com | 1 |
| 5 | Diwel | H. | Herrera | 6994583 | Manila | dhd@gmail.com | 1 |
+-----+-----+-----+-----+-----+-----+-----+-----+
5 rows in set (0.000 sec)
```

```
MariaDB [case_study_crownrelo]> UPDATE employees set emp_add = "Taguig" where emp_is_admin = '1' AND emp_add = "Manila";
Query OK, 1 row affected (0.053 sec)
Rows matched: 1 Changed: 1 Warnings: 0

MariaDB [case_study_crownrelo]> select*from employees;
+-----+-----+-----+-----+-----+-----+-----+-----+
| emp_id | emp_fname | emp_mi | emp_lname | emp_cont | emp_add | emp_eadd | emp_is_admin |
+-----+-----+-----+-----+-----+-----+-----+-----+
| 1 | Fiel | M. | Buada | 2147483647 | Tanza, Cavite | fielmb@gmail.com | 1 |
| 2 | Joemari | | Boto | 655489 | Makati | jboto@yahoo.com | 0 |
| 3 | Wish | T. | Mustary | 655489 | Taguig | wishmustary@outlook.com | 0 |
| 4 | Juan | D. | Cruz | 655478 | Makati | jdc@gmail.com | 1 |
| 5 | Diwel | H. | Herrera | 6994583 | Taguig | dhd@gmail.com | 1 |
+-----+-----+-----+-----+-----+-----+-----+-----+
5 rows in set (0.000 sec)
```

```

MariaDB [case_study_crownrelo]> update employees set emp_cont = '0915708' where emp_id = '1';
Query OK, 1 row affected (0.060 sec)
Rows matched: 1 Changed: 1 Warnings: 0

MariaDB [case_study_crownrelo]> select*from employees;
+-----+-----+-----+-----+-----+-----+-----+-----+
| emp_id | emp_fname | emp_mi | emp_lname | emp_cont | emp_add | emp_eadd | emp_is_admin |
+-----+-----+-----+-----+-----+-----+-----+-----+
| 1 | Fiel | M. | Buada | 915708 | Tanza, Cavite | fielmb@gmail.com | 1 |
| 2 | Joemari | | Boto | 655489 | Makati | jboto@yahoo.com | 0 |
| 3 | Wish | T. | Mustary | 655489 | Taguig | wishmustary@outlook.com | 0 |
| 4 | Juan | D. | Cruz | 655478 | Makati | jdc@gmail.com | 1 |
| 5 | Diwel | H. | Herrera | 6994583 | Taguig | dhd@gmail.com | 1 |
+-----+-----+-----+-----+-----+-----+-----+-----+
5 rows in set (0.000 sec)

```

```

MariaDB [case_study_crownrelo]> update employees set emp_mi = 'A' where emp_lname = 'Boto';
Query OK, 1 row affected (0.059 sec)
Rows matched: 1 Changed: 1 Warnings: 0

MariaDB [case_study_crownrelo]> select*from employees;
+-----+-----+-----+-----+-----+-----+-----+-----+
| emp_id | emp_fname | emp_mi | emp_lname | emp_cont | emp_add | emp_eadd | emp_is_admin |
+-----+-----+-----+-----+-----+-----+-----+-----+
| 1 | Fiel | M. | Buada | 915708 | Tanza, Cavite | fielmb@gmail.com | 1 |
| 2 | Joemari | A | Boto | 655489 | Makati | jboto@yahoo.com | 0 |
| 3 | Wish | T. | Mustary | 655489 | Taguig | wishmustary@outlook.com | 0 |
| 4 | Juan | D. | Cruz | 655478 | Makati | jdc@gmail.com | 1 |
| 5 | Diwel | H. | Herrera | 6994583 | Taguig | dhd@gmail.com | 1 |
+-----+-----+-----+-----+-----+-----+-----+-----+
5 rows in set (0.000 sec)

```

Customer

```

MariaDB [case_study_crownrelo]> update customer set cust_job = 'Professor' where cust_lname = "Herrera";
Query OK, 1 row affected (0.054 sec)
Rows matched: 1 Changed: 1 Warnings: 0

MariaDB [case_study_crownrelo]> select*from customer;
+-----+-----+-----+-----+-----+-----+-----+-----+-----+
| cust_id | cust_fname | cust_mi | cust_lname | cust_cont | cust_add | cust_eadd | cust_num | cust_job | emp_id |
+-----+-----+-----+-----+-----+-----+-----+-----+-----+
| 1 | Tin | C. | Marquez | 658990 | Quezon | pbm@yahoo.com | 0 | | 1 |
| 2 | David | A. | De Guzman | 958741 | Pasay | dadg@outlook.com | 0 | Engineer | 2 |
| 3 | Pedro | | Penduko | 666999 | Pasay | pandab@outlook.com | 555 | Security Guard | 3 |
| 4 | Khina | C | Herrera | 859642 | Manila | Kyou@gmail.com | 0 | Professor | 4 |
| 5 | Maria | | Sta. Ana | 923561 | Manila | maria24@gmail.com | 0 | Teacher | 5 |
+-----+-----+-----+-----+-----+-----+-----+-----+-----+
5 rows in set (0.000 sec)

```

```
MariaDB [case_study_crownrelo]> update customer set cust_lname = 'Paterno' where cust_id = "3";
Query OK, 1 row affected (0.058 sec)
Rows matched: 1 Changed: 1 Warnings: 0
```

```
MariaDB [case_study_crownrelo]> select*from customer;
```

cust_id	cust_fname	cust_mi	cust_lname	cust_cont	cust_add	cust_eadd	cust_num	cust_job	emp_id
1	Tin	C.	Marquez	658990	Quezon	pbm@yahoo.com	0		1
2	David	A.	De Guzman	958741	Pasay	dadg@outlook.com	0	Engineer	2
3	Pedro		Paterno	666999	Pasay	pandab@outlook.com	555	Security Guard	3
4	Khina	C	Herrera	859642	Manila	Kyou@gmail.com	0	Professor	4
5	Maria		Sta. Ana	923561	Manila	maria24@gmail.com	0	Teacher	5

5 rows in set (0.000 sec)

```
MariaDB [case_study_crownrelo]> update customer set cust_num = '50' where cust_num = 0;
Query OK, 4 rows affected (0.071 sec)
Rows matched: 4 Changed: 4 Warnings: 0
```

```
MariaDB [case_study_crownrelo]> select*from customer;
```

cust_id	cust_fname	cust_mi	cust_lname	cust_cont	cust_add	cust_eadd	cust_num	cust_job	emp_id
1	Tin	C.	Marquez	658990	Quezon	pbm@yahoo.com	50		1
2	David	A.	De Guzman	958741	Pasay	dadg@outlook.com	50	Engineer	2
3	Pedro		Paterno	666999	Pasay	pandab@outlook.com	555	Security Guard	3
4	Khina	C	Herrera	859642	Manila	Kyou@gmail.com	50	Professor	4
5	Maria		Sta. Ana	923561	Manila	maria24@gmail.com	50	Teacher	5

5 rows in set (0.000 sec)

```
MariaDB [case_study_crownrelo]> update customer set cust_num = 75 where cust_add in ('Pasay');
Query OK, 2 rows affected (0.068 sec)
Rows matched: 2 Changed: 2 Warnings: 0
```

```
MariaDB [case_study_crownrelo]> select*from customer;
```

cust_id	cust_fname	cust_mi	cust_lname	cust_cont	cust_add	cust_eadd	cust_num	cust_job	emp_id
1	Tin	C.	Marquez	658990	Quezon	pbm@yahoo.com	50		1
2	David	A.	De Guzman	958741	Pasay	dadg@outlook.com	75	Engineer	2
3	Pedro		Paterno	666999	Pasay	pandab@outlook.com	75	Security Guard	3
4	Khina	C	Herrera	859642	Manila	Kyou@gmail.com	50	Professor	4
5	Maria		Sta. Ana	923561	Manila	maria24@gmail.com	50	Teacher	5

5 rows in set (0.000 sec)

```
MariaDB [case_study_crownrelo]> update customer set cust_job = "Cook" where cust_lname = "Marquez" AND emp_id = '1';
Query OK, 1 row affected (0.068 sec)
Rows matched: 1 Changed: 1 Warnings: 0
```

```
MariaDB [case_study_crownrelo]> select*from customer;
```

cust_id	cust_fname	cust_mi	cust_lname	cust_cont	cust_add	cust_eadd	cust_num	cust_job	emp_id
1	Tin	C.	Marquez	658990	Quezon	pbm@yahoo.com	50	Cook	1
2	David	A.	De Guzman	958741	Pasay	dadg@outlook.com	75	Engineer	2
3	Pedro		Paterno	666999	Pasay	pandab@outlook.com	75	Security Guard	3
4	Khina	C	Herrera	859642	Manila	Kyou@gmail.com	50	Professor	4
5	Maria		Sta. Ana	923561	Manila	maria24@gmail.com	50	Teacher	5

5 rows in set (0.000 sec)

Orders

```
MariaDB [case_study_crownrelo]> UPDATE orders SET order_loc = "Makati" where cust_id =1;
Query OK, 1 row affected (0.093 sec)
Rows matched: 1 Changed: 1 Warnings: 0
```

```
MariaDB [case_study_crownrelo]> select*from orders;
```

order_id	order_date	order_desc	order_pick_up	order_drop_off	order_loc	cust_id
1	2019-09-21	relocation	Makati	Taguig	Makati	1
2	2019-01-24	relocation	Pasay	Taguig	Taguig	3
3	2019-08-15	logistics	Makati	Makati	Makati	3
4	2019-08-15	relocation	Makati	Makati	Makati	2
5	2019-09-22	relocation	Taguig	Quezon	Taguig	5

5 rows in set (0.080 sec)

```
MariaDB [case_study_crownrelo]> UPDATE orders SET order_drop_off = 'Pasay' where order_date = '2019-08-15';
Query OK, 2 rows affected (0.063 sec)
Rows matched: 2 Changed: 2 Warnings: 0
```

```
MariaDB [case_study_crownrelo]> select*from orders;
```

order_id	order_date	order_desc	order_pick_up	order_drop_off	order_loc	cust_id
1	2019-09-21	relocation	Makati	Taguig	Makati	1
2	2019-01-24	relocation	Pasay	Taguig	Taguig	3
3	2019-08-15	logistics	Makati	Pasay	Makati	3
4	2019-08-15	relocation	Makati	Pasay	Makati	2
5	2019-09-22	relocation	Taguig	Quezon	Taguig	5

5 rows in set (0.000 sec)

```
MariaDB [case_study_crownrelo]> UPDATE orders SET order_desc = 'relocation' where order_id = '3';
Query OK, 1 row affected (0.043 sec)
Rows matched: 1  Changed: 1  Warnings: 0
```

```
MariaDB [case_study_crownrelo]> select*from orders;
+-----+-----+-----+-----+-----+-----+-----+
| order_id | order_date | order_desc | order_pick_up | order_drop_off | order_loc | cust_id |
+-----+-----+-----+-----+-----+-----+-----+
| 1 | 2019-09-21 | relocation | Makati | Taguig | Makati | 1 |
| 2 | 2019-01-24 | relocation | Pasay | Taguig | Taguig | 3 |
| 3 | 2019-08-15 | relocation | Makati | Pasay | Makati | 3 |
| 4 | 2019-08-15 | relocation | Makati | Pasay | Makati | 2 |
| 5 | 2019-09-22 | relocation | Taguig | Quezon | Taguig | 5 |
+-----+-----+-----+-----+-----+-----+-----+
5 rows in set (0.000 sec)
```

```
MariaDB [case_study_crownrelo]> UPDATE orders SET order_date = '2019-09-21' where order_pick_up IN ('Makati');
Query OK, 2 rows affected (0.040 sec)
Rows matched: 3  Changed: 2  Warnings: 0
```

```
MariaDB [case_study_crownrelo]> select*from orders;
+-----+-----+-----+-----+-----+-----+-----+
| order_id | order_date | order_desc | order_pick_up | order_drop_off | order_loc | cust_id |
+-----+-----+-----+-----+-----+-----+-----+
| 1 | 2019-09-21 | relocation | Makati | Taguig | Makati | 1 |
| 2 | 2019-01-24 | relocation | Pasay | Taguig | Taguig | 3 |
| 3 | 2019-09-21 | relocation | Makati | Pasay | Makati | 3 |
| 4 | 2019-09-21 | relocation | Makati | Pasay | Makati | 2 |
| 5 | 2019-09-22 | relocation | Taguig | Quezon | Taguig | 5 |
+-----+-----+-----+-----+-----+-----+-----+
5 rows in set (0.000 sec)
```

```
MariaDB [case_study_crownrelo]> UPDATE orders SET order_desc = 'logistics' where cust_id = '3'and order_id = 2 ;
Query OK, 1 row affected (0.052 sec)
Rows matched: 1  Changed: 1  Warnings: 0
```

```
MariaDB [case_study_crownrelo]> select*from orders;
+-----+-----+-----+-----+-----+-----+-----+
| order_id | order_date | order_desc | order_pick_up | order_drop_off | order_loc | cust_id |
+-----+-----+-----+-----+-----+-----+-----+
| 1 | 2019-09-21 | relocation | Makati | Taguig | Makati | 1 |
| 2 | 2019-01-24 | logistics | Pasay | Taguig | Taguig | 3 |
| 3 | 2019-09-21 | relocation | Makati | Pasay | Makati | 3 |
| 4 | 2019-09-21 | relocation | Makati | Pasay | Makati | 2 |
| 5 | 2019-09-22 | relocation | Taguig | Quezon | Taguig | 5 |
+-----+-----+-----+-----+-----+-----+-----+
5 rows in set (0.000 sec)
```

Building

```
MariaDB [case_study_crownrelo]> update building set cust_id = '3' where bldg_add ="Makati";
Query OK, 1 row affected (0.134 sec)
Rows matched: 2  Changed: 1  Warnings: 0
```

```
MariaDB [case_study_crownrelo]> select*from building;
```

bldg_id	bldg_add	bldg_zip	cust_id
1	Pasay	1300	1
2	Taguig	1630	2
3	Makati	1233	3
4	Makati	1220	3
5	Pasay	1300	5

5 rows in set (0.000 sec)

```
MariaDB [case_study_crownrelo]> update building set bldg_add = 'Pasay' where bldg_zip between 1200 and 1300;
Query OK, 2 rows affected (0.069 sec)
Rows matched: 4  Changed: 2  Warnings: 0
```

```
MariaDB [case_study_crownrelo]> select*from building;
```

bldg_id	bldg_add	bldg_zip	cust_id
1	Pasay	1300	1
2	Taguig	1630	2
3	Pasay	1233	3
4	Pasay	1220	3
5	Pasay	1300	5

5 rows in set (0.000 sec)

```
MariaDB [case_study_crownrelo]> update building set bldg_zip = '1300' where bldg_add = 'Pasay';
Query OK, 2 rows affected (0.059 sec)
Rows matched: 4  Changed: 2  Warnings: 0
```

```
MariaDB [case_study_crownrelo]> select*from building;
```

bldg_id	bldg_add	bldg_zip	cust_id
1	Pasay	1300	1
2	Taguig	1630	2
3	Pasay	1300	3
4	Pasay	1300	3
5	Pasay	1300	5

5 rows in set (0.003 sec)

```

MariaDB [case_study_crownrelo]> update building set bldg_add = 'Makati' where cust_id in('3')
-> ;
Query OK, 2 rows affected (0.079 sec)
Rows matched: 2  Changed: 2  Warnings: 0

MariaDB [case_study_crownrelo]> update building set bldg_add = 'Makati' where cust_id in('3')
-> sds;
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your
MariaDB [case_study_crownrelo]> select*from building;
+-----+-----+-----+-----+
| bldg_id | bldg_add | bldg_zip | cust_id |
+-----+-----+-----+-----+
| 1 | Pasay | 1300 | 1 |
| 2 | Taguig | 1630 | 2 |
| 3 | Makati | 1300 | 3 |
| 4 | Makati | 1300 | 3 |
| 5 | Pasay | 1300 | 5 |
+-----+-----+-----+-----+
5 rows in set (0.000 sec)

```

```

MariaDB [case_study_crownrelo]> update building set bldg_zip = '1200' where bldg_add = 'Makati';
Query OK, 2 rows affected (0.122 sec)
Rows matched: 2  Changed: 2  Warnings: 0

MariaDB [case_study_crownrelo]> select*from building;
+-----+-----+-----+-----+
| bldg_id | bldg_add | bldg_zip | cust_id |
+-----+-----+-----+-----+
| 1 | Pasay | 1300 | 1 |
| 2 | Taguig | 1630 | 2 |
| 3 | Makati | 1200 | 3 |
| 4 | Makati | 1200 | 3 |
| 5 | Pasay | 1300 | 5 |
+-----+-----+-----+-----+
5 rows in set (0.000 sec)

```

Item

```

MariaDB [case_study_crownrelo]> update item set item_qty = 10 where item_qty >10;
Query OK, 2 rows affected (0.076 sec)
Rows matched: 2  Changed: 2  Warnings: 0

MariaDB [case_study_crownrelo]> select*from item;
+-----+-----+-----+-----+-----+-----+
| item_id | item_name | item_type | item_qty | bldg_id | cust_id |
+-----+-----+-----+-----+-----+-----+
| 1 | sofa | furniture | 3 | 1 | 2 |
| 2 | T.V | appliance | 1 | 2 | 1 |
| 3 | RTW clothes | apparel | 10 | 3 | 3 |
| 4 | painting | art | 5 | 4 | 4 |
| 5 | encyclopedia | book | 10 | 5 | 5 |
+-----+-----+-----+-----+-----+-----+
5 rows in set (0.000 sec)

```

```
MariaDB [case_study_crownrelo]> update item set item_qty = 20 where item_qty < 5
-> ;
Query OK, 2 rows affected (0.133 sec)
Rows matched: 2 Changed: 2 Warnings: 0
```

```
MariaDB [case_study_crownrelo]> update item set item_qty = 20 where item_qty < 5
-> ;
Query OK, 0 rows affected (0.000 sec)
Rows matched: 0 Changed: 0 Warnings: 0
```

```
MariaDB [case_study_crownrelo]> select * from item;
```

item_id	item_name	item_type	item_qty	bldg_id	cust_id
1	sofa	furniture	20	1	2
2	T.V	appliance	20	2	1
3	RTW clothes	apparel	10	3	3
4	painting	art	5	4	4
5	encyclopedia	book	10	5	5

```
5 rows in set (0.000 sec)
```

```
MariaDB [case_study_crownrelo]> update item set item_name = 'Mona Lisa' where item_id = 4 AND cust_id = 4;
Query OK, 1 row affected (0.087 sec)
Rows matched: 1 Changed: 1 Warnings: 0
```

```
MariaDB [case_study_crownrelo]> select * from item;
```

item_id	item_name	item_type	item_qty	bldg_id	cust_id
1	sofa	furniture	20	1	2
2	T.V	appliance	20	2	1
3	RTW clothes	apparel	10	3	3
4	Mona Lisa	art	5	4	4
5	encyclopedia	book	10	5	5

```
5 rows in set (0.000 sec)
```



```
MariaDB [case_study_crownrelo]> update item set item_qty = 50 where item_name = 'RTW clothes';
Query OK, 1 row affected (0.063 sec)
Rows matched: 1 Changed: 1 Warnings: 0
```

```
MariaDB [case_study_crownrelo]> select*from item;
```

item_id	item_name	item_type	item_qty	bldg_id	cust_id
1	sofa	furniture	20	1	2
2	T.V	appliance	20	2	1
3	RTW clothes	apparel	50	3	3
4	Mona Lisa	art	5	4	4
5	encyclopedia	book	10	5	5

5 rows in set (0.000 sec)

```
MariaDB [case_study_crownrelo]> update item set item_qty = 5 WHERE cust_id = 2;
Query OK, 1 row affected (0.132 sec)
Rows matched: 1 Changed: 1 Warnings: 0
```

```
MariaDB [case_study_crownrelo]> select*from item;
```

item_id	item_name	item_type	item_qty	bldg_id	cust_id
1	sofa	furniture	5	1	2
2	T.V	appliance	20	2	1
3	RTW clothes	apparel	50	3	3
4	Mona Lisa	art	5	4	4
5	encyclopedia	book	10	5	5

5 rows in set (0.000 sec)

Team

```
MariaDB [case_study_crownrelo]> update team set emp_id = 4 where emp_id = 5 and team_id = 4;
Query OK, 1 row affected (0.119 sec)
Rows matched: 1  Changed: 1  Warnings: 0
```

```
MariaDB [case_study_crownrelo]> select*from team;
+-----+-----+-----+-----+-----+
| team_id | team_cont | team_title | cust_id | emp_id |
+-----+-----+-----+-----+-----+
| 1 | 909546 | sales | 1 | 1 |
| 2 | 665897 | field team | 1 | 2 |
| 3 | 995832 | public relations | 3 | 3 |
| 4 | 6910047 | accounting | 4 | 4 |
| 5 | 691003 | human relations | 5 | 5 |
+-----+-----+-----+-----+-----+
5 rows in set (0.000 sec)
```

```
MariaDB [case_study_crownrelo]> update team set team_cont = 988746 where team_cont like '_9%';
Query OK, 3 rows affected (0.070 sec)
Rows matched: 3  Changed: 3  Warnings: 0
```

```
MariaDB [case_study_crownrelo]> select*from team;
+-----+-----+-----+-----+-----+
| team_id | team_cont | team_title | cust_id | emp_id |
+-----+-----+-----+-----+-----+
| 1 | 909546 | sales | 1 | 1 |
| 2 | 665897 | field team | 1 | 2 |
| 3 | 988746 | public relations | 3 | 3 |
| 4 | 988746 | accounting | 4 | 4 |
| 5 | 988746 | human relations | 5 | 5 |
+-----+-----+-----+-----+-----+
5 rows in set (0.000 sec)
```

```
MariaDB [case_study_crownrelo]> update team set team_title = 'external relations' where team_id = 3;
Query OK, 1 row affected (0.070 sec)
Rows matched: 1  Changed: 1  Warnings: 0
```

```
MariaDB [case_study_crownrelo]> select*from team;
+-----+-----+-----+-----+-----+
| team_id | team_cont | team_title | cust_id | emp_id |
+-----+-----+-----+-----+-----+
| 1 | 909546 | sales | 1 | 1 |
| 2 | 665897 | field team | 1 | 2 |
| 3 | 988746 | external relations | 3 | 3 |
| 4 | 988746 | accounting | 4 | 4 |
| 5 | 988746 | human relations | 5 | 5 |
+-----+-----+-----+-----+-----+
5 rows in set (0.000 sec)
```

```
MariaDB [case_study_crownrelo]> update team set team_title = 'sales and marketing' where team_id = 1;
Query OK, 1 row affected (0.044 sec)
Rows matched: 1 Changed: 1 Warnings: 0
```

```
MariaDB [case_study_crownrelo]> select*from team;
```

team_id	team_cont	team_title	cust_id	emp_id
1	909546	sales and marketing	1	1
2	665897	field team	1	2
3	988746	external relations	3	3
4	988746	accounting	4	4
5	988746	human relations	5	5

```
5 rows in set (0.000 sec)
```

```
MariaDB [case_study_crownrelo]> update team set cust_id = 1 where cust_id != 1;
Query OK, 3 rows affected (0.094 sec)
```

```
Rows matched: 3 Changed: 3 Warnings: 0
```

```
MariaDB [case_study_crownrelo]> select*from team;
```

team_id	team_cont	team_title	cust_id	emp_id
1	909546	sales and marketing	1	1
2	665897	field team	1	2
3	988746	external relations	1	3
4	988746	accounting	1	4
5	988746	human relations	1	5

```
5 rows in set (0.000 sec)
```

Vehicle

```
MariaDB [case_study_crownrelo]> Update vehicle set veh_name = "Crown" where veh_brand = "Toyota";
Query OK, 2 rows affected (0.077 sec)
```

```
Rows matched: 2 Changed: 2 Warnings: 0
```

```
MariaDB [case_study_crownrelo]> select*from vehicle;
```

veh_id	veh_name	veh_pnum	veh_color	veh_brand	emp_id
1	Bandito	ABC-123	White	Ford	1
2	Crown	DEF-456	Black	Toyota	2
3	Cher	GHI-789	Gray	Hyundai	3
4	Crown	JKL-012	Gray	Toyota	4
5	Pajero	NHI-245	Red	Mitsubishi	5

```
5 rows in set (0.000 sec)
```

```
MariaDB [case_study_crownrelo]> Update vehicle set veh_color = "Red" where veh_color = "Gray";
Query OK, 2 rows affected (0.056 sec)
Rows matched: 2  Changed: 2  Warnings: 0
```

```
MariaDB [case_study_crownrelo]> select*from vehicle;
+-----+-----+-----+-----+-----+-----+
| veh_id | veh_name | veh_pnum | veh_color | veh_brand | emp_id |
+-----+-----+-----+-----+-----+-----+
| 1 | Bandito | ABC-123 | White | Ford | 1 |
| 2 | Crown | DEF-456 | Black | Toyota | 2 |
| 3 | Cher | GHI-789 | Red | Hyundai | 3 |
| 4 | Crown | JKL-012 | Red | Toyota | 4 |
| 5 | Pajero | NHI-245 | Red | Mitsubishi | 5 |
+-----+-----+-----+-----+-----+-----+
5 rows in set (0.000 sec)
```

```
MariaDB [case_study_crownrelo]> Update vehicle set veh_brand = 'Mitsubishi' where emp_id = 1;
Query OK, 1 row affected (0.093 sec)
Rows matched: 1  Changed: 1  Warnings: 0
```

```
MariaDB [case_study_crownrelo]> select * from vehicle;
+-----+-----+-----+-----+-----+-----+
| veh_id | veh_name | veh_pnum | veh_color | veh_brand | emp_id |
+-----+-----+-----+-----+-----+-----+
| 1 | Bandito | ABC-123 | White | Mitsubishi | 1 |
| 2 | Crown | DEF-456 | Black | Toyota | 2 |
| 3 | Cher | GHI-789 | Red | Hyundai | 3 |
| 4 | Crown | JKL-012 | Red | Toyota | 4 |
| 5 | Pajero | NHI-245 | Red | Mitsubishi | 5 |
+-----+-----+-----+-----+-----+-----+
5 rows in set (0.000 sec)
```

```
MariaDB [case_study_crownrelo]> update vehicle set veh_name = 'Pajero' where veh_brand LIKE 'M%';
Query OK, 1 row affected (0.153 sec)
Rows matched: 2  Changed: 1  Warnings: 0
```

```
MariaDB [case_study_crownrelo]> select * from vehicle;
+-----+-----+-----+-----+-----+-----+
| veh_id | veh_name | veh_pnum | veh_color | veh_brand | emp_id |
+-----+-----+-----+-----+-----+-----+
| 1 | Pajero | ABC-123 | White | Mitsubishi | 1 |
| 2 | Crown | DEF-456 | Black | Toyota | 2 |
| 3 | Cher | GHI-789 | Red | Hyundai | 3 |
| 4 | Crown | JKL-012 | Red | Toyota | 4 |
| 5 | Pajero | NHI-245 | Red | Mitsubishi | 5 |
+-----+-----+-----+-----+-----+-----+
5 rows in set (0.000 sec)
```

```

MariaDB [case_study_crownrelo]> update vehicle set veh_color = 'Green' where veh_brand IN ('HYUNDAI');
Query OK, 1 row affected (0.057 sec)
Rows matched: 1  Changed: 1  Warnings: 0

MariaDB [case_study_crownrelo]> select * from vehicle;
+-----+-----+-----+-----+-----+-----+
| veh_id | veh_name | veh_pnum | veh_color | veh_brand | emp_id |
+-----+-----+-----+-----+-----+-----+
| 1 | Pajero | ABC-123 | White | Mitsubishi | 1 |
| 2 | Crown | DEF-456 | Black | Toyota | 2 |
| 3 | Cher | GHI-789 | Green | Hyundai | 3 |
| 4 | Crown | JKL-012 | Red | Toyota | 4 |
| 5 | Pajero | NHI-245 | Red | Mitsubishi | 5 |
+-----+-----+-----+-----+-----+-----+
5 rows in set (0.000 sec)

```

Transaction

```

MariaDB [case_study_crownrelo]> update transaction set tran_type = 'relocation' where tran_loc = 'Makati';
Query OK, 1 row affected (0.061 sec)
Rows matched: 1  Changed: 1  Warnings: 0

MariaDB [case_study_crownrelo]> select * from transaction;
+-----+-----+-----+-----+-----+
| tran_id | tran_type | tran_date | tran_loc | emp_id |
+-----+-----+-----+-----+-----+
| 1 | payment | 2019-02-20 | Taguig | 1 |
| 2 | relocation | 2019-08-18 | Manila | 2 |
| 3 | relocation | 2019-08-18 | Manila | 3 |
| 4 | payment | 2019-09-01 | Pasay | 4 |
| 5 | relocation | 2019-09-23 | Makati | 5 |
+-----+-----+-----+-----+-----+
5 rows in set (0.000 sec)

```

```

MariaDB [case_study_crownrelo]> update transaction set emp_id = 4 where tran_type = 'payment';
Query OK, 1 row affected (0.112 sec)
Rows matched: 2  Changed: 1  Warnings: 0

MariaDB [case_study_crownrelo]> select * from transaction;
+-----+-----+-----+-----+-----+
| tran_id | tran_type | tran_date | tran_loc | emp_id |
+-----+-----+-----+-----+-----+
| 1 | payment | 2019-02-20 | Taguig | 4 |
| 2 | relocation | 2019-08-18 | Manila | 2 |
| 3 | relocation | 2019-08-18 | Manila | 3 |
| 4 | payment | 2019-09-01 | Pasay | 4 |
| 5 | relocation | 2019-09-23 | Makati | 5 |
+-----+-----+-----+-----+-----+
5 rows in set (0.000 sec)

```

```
MariaDB [case_study_crownrelo]> update transaction set tran_loc = "Taguig" where tran_type in ('payment');
Query OK, 1 row affected (0.050 sec)
Rows matched: 2  Changed: 1  Warnings: 0
```

```
MariaDB [case_study_crownrelo]> select * from transaction;
+-----+-----+-----+-----+-----+
| tran_id | tran_type | tran_date | tran_loc | emp_id |
+-----+-----+-----+-----+-----+
| 1 | payment | 2019-02-20 | Taguig | 4 |
| 2 | relocation | 2019-08-18 | Manila | 2 |
| 3 | relocation | 2019-08-18 | Manila | 3 |
| 4 | payment | 2019-09-01 | Taguig | 4 |
| 5 | relocation | 2019-09-23 | Makati | 5 |
+-----+-----+-----+-----+-----+
5 rows in set (0.000 sec)
```

```
MariaDB [case_study_crownrelo]> update transaction set tran_type = 'delivery' where tran_date ='2019-09-01';
Query OK, 1 row affected (0.032 sec)
Rows matched: 1  Changed: 1  Warnings: 0
```

```
MariaDB [case_study_crownrelo]> select * from transaction;
+-----+-----+-----+-----+-----+
| tran_id | tran_type | tran_date | tran_loc | emp_id |
+-----+-----+-----+-----+-----+
| 1 | payment | 2019-02-20 | Taguig | 4 |
| 2 | relocation | 2019-08-18 | Manila | 2 |
| 3 | relocation | 2019-08-18 | Manila | 3 |
| 4 | delivery | 2019-09-01 | Taguig | 4 |
| 5 | relocation | 2019-09-23 | Makati | 5 |
+-----+-----+-----+-----+-----+
5 rows in set (0.000 sec)
```

```
MariaDB [case_study_crownrelo]> update transaction set emp_id = '1' where tran_type ='delivery';
Query OK, 1 row affected (0.024 sec)
Rows matched: 1  Changed: 1  Warnings: 0
```

```
MariaDB [case_study_crownrelo]> select * from transaction;
+-----+-----+-----+-----+-----+
| tran_id | tran_type | tran_date | tran_loc | emp_id |
+-----+-----+-----+-----+-----+
| 1 | payment | 2019-02-20 | Taguig | 4 |
| 2 | relocation | 2019-08-18 | Manila | 2 |
| 3 | relocation | 2019-08-18 | Manila | 3 |
| 4 | delivery | 2019-09-01 | Taguig | 1 |
| 5 | relocation | 2019-09-23 | Makati | 5 |
+-----+-----+-----+-----+-----+
5 rows in set (0.000 sec)
```

Payment

```
MariaDB [case_study_crownrelo]> update payment set payment_amt = '5000.00' where payment_amt >9000.00;  
Query OK, 2 rows affected (0.098 sec)  
Rows matched: 2  Changed: 2  Warnings: 0
```

```
MariaDB [case_study_crownrelo]> select*from payment;
```

payment_id	payment_type	payment_amt	payment_date	emp_id	cust_id
1	cash	5000.00	2019-02-20	1	1
2	debit	5000.00	2019-08-24	1	2
3	credit	5250.75	2019-08-18	3	3
4	cash	2000.00	2019-09-02	4	4
5	cash	1050.00	2019-09-21	5	5

5 rows in set (0.000 sec)

```
MariaDB [case_study_crownrelo]> update payment set payment_type = 'debit' where payment_amt between 1000.00 and 1500.00;  
Query OK, 1 row affected (0.069 sec)  
Rows matched: 1  Changed: 1  Warnings: 0
```

```
MariaDB [case_study_crownrelo]> select*from payment;
```

payment_id	payment_type	payment_amt	payment_date	emp_id	cust_id
1	cash	5000.00	2019-02-20	1	1
2	debit	5000.00	2019-08-24	1	2
3	credit	5250.75	2019-08-18	3	3
4	cash	2000.00	2019-09-02	4	4
5	debit	1050.00	2019-09-21	5	5

5 rows in set (0.000 sec)

```
MariaDB [case_study_crownrelo]> update payment set payment_type = 'credit' where emp_id = 1;  
Query OK, 2 rows affected (0.064 sec)  
Rows matched: 2  Changed: 2  Warnings: 0
```

```
MariaDB [case_study_crownrelo]> select*from payment;
```

payment_id	payment_type	payment_amt	payment_date	emp_id	cust_id
1	credit	5000.00	2019-02-20	1	1
2	credit	5000.00	2019-08-24	1	2
3	credit	5250.75	2019-08-18	3	3
4	cash	2000.00	2019-09-02	4	4
5	debit	1050.00	2019-09-21	5	5

5 rows in set (0.000 sec)

```
MariaDB [case_study_crownrelo]> select*from payment;
```

payment_id	payment_type	payment_amt	payment_date	emp_id	cust_id
1	credit	5000.00	2019-02-20	1	1
2	debit	5000.00	2019-08-24	1	2
3	credit	5250.75	2019-08-18	3	3
4	cash	2000.00	2019-09-02	4	4
5	debit	1050.00	2019-09-21	5	5

```
5 rows in set (0.000 sec)
```

```
MariaDB [case_study_crownrelo]> update payment set payment_date = '2019-09-20' where cust_id = 5 and emp_id =5;
```

```
Query OK, 1 row affected (0.055 sec)
```

```
Rows matched: 1 Changed: 1 Warnings: 0
```

```
MariaDB [case_study_crownrelo]> select*from payment;
```

payment_id	payment_type	payment_amt	payment_date	emp_id	cust_id
1	credit	5000.00	2019-02-20	1	1
2	debit	5000.00	2019-08-24	1	2
3	credit	5250.75	2019-08-18	3	3
4	cash	2000.00	2019-09-02	4	4
5	debit	1050.00	2019-09-20	5	5

```
5 rows in set (0.000 sec)
```

Delete

Employees

```
MariaDB [case_study_crownrelo]> delete from employees where emp_eadd like 'dh%';
```

```
Query OK, 1 row affected (0.070 sec)
```

```
MariaDB [case_study_crownrelo]> select*from employees;
```

emp_id	emp_fname	emp_mi	emp_lname	emp_cont	emp_add	emp_eadd	emp_is_admin
1	Fiel	M.	Buada	915708	Tanza, Cavite	fielmb@gmail.com	1
2	Joemari	A	Boto	655489	Makati	jboto@yahoo.com	0
3	Wish	T.	Mustary	655489	Taguig	wishmustary@outlook.com	0
4	Juan	D.	Cruz	655478	Makati	jdc@gmail.com	1

```
4 rows in set (0.000 sec)
```



```
MariaDB [case_study_crownrelo]> delete from employees where emp_id = 4  
-> ;
```

```
Query OK, 1 row affected (0.057 sec)
```

```
MariaDB [case_study_crownrelo]> select*from employees;
```

emp_id	emp_fname	emp_mi	emp_lname	emp_cont	emp_add	emp_eadd	emp_is_admin
1	Fiel	M.	Buada	915708	Tanza, Cavite	fielmb@gmail.com	1
2	Joemari	A	Boto	655489	Makati	jboto@yahoo.com	0
3	Wish	T.	Mustary	655489	Taguig	wishmustary@outlook.com	0

```
3 rows in set (0.000 sec)
```

```
MariaDB [case_study_crownrelo]> delete from employees where emp_add in ('Makati');
```

```
Query OK, 1 row affected (0.058 sec)
```

```
MariaDB [case_study_crownrelo]> select*from employees;
```

emp_id	emp_fname	emp_mi	emp_lname	emp_cont	emp_add	emp_eadd	emp_is_admin
1	Fiel	M.	Buada	915708	Tanza, Cavite	fielmb@gmail.com	1
3	Wish	T.	Mustary	655489	Taguig	wishmustary@outlook.com	0

```
2 rows in set (0.000 sec)
```

```
MariaDB [case_study_crownrelo]> delete from employees where emp_fname like '_is%';
```

```
Query OK, 1 row affected (0.135 sec)
```

```
MariaDB [case_study_crownrelo]> select*from employees;
```

emp_id	emp_fname	emp_mi	emp_lname	emp_cont	emp_add	emp_eadd	emp_is_admin
1	Fiel	M.	Buada	915708	Tanza, Cavite	fielmb@gmail.com	1

```
1 row in set (0.000 sec)
```

```
MariaDB [case_study_crownrelo]> delete from employees where emp_is_admin !=0;
```

```
Query OK, 1 row affected (0.054 sec)
```

```
MariaDB [case_study_crownrelo]> select*from employees;
```

```
Empty set (0.000 sec)
```

```
MariaDB [case_study_crownrelo]>
```

Customer

```
MariaDB [case_study_crownrelo]> delete from customer where cust_id = '5';
Query OK, 1 row affected (0.026 sec)
```

```
MariaDB [case_study_crownrelo]> select*from customer;
```

cust_id	cust_fname	cust_mi	cust_lname	cust_cont	cust_add	cust_eadd	cust_num	cust_job	emp_id
1	Tin	C.	Marquez	658990	Quezon	pbm@yahoo.com	50	Cook	1
2	David	A.	De Guzman	958741	Pasay	dadg@outlook.com	75	Engineer	2
3	Pedro		Paterno	666999	Pasay	pandab@outlook.com	75	Security Guard	3
4	Khina	C	Herrera	859642	Manila	Kyou@gmail.com	50	Professor	4

4 rows in set (0.000 sec)

```
MariaDB [case_study_crownrelo]> delete from customer where emp_id = 1;
Query OK, 1 row affected (0.139 sec)
```

```
MariaDB [case_study_crownrelo]> select*from customer;
```

cust_id	cust_fname	cust_mi	cust_lname	cust_cont	cust_add	cust_eadd	cust_num	cust_job	emp_id
2	David	A.	De Guzman	958741	Pasay	dadg@outlook.com	75	Engineer	2
3	Pedro		Paterno	666999	Pasay	pandab@outlook.com	75	Security Guard	3
4	Khina	C	Herrera	859642	Manila	Kyou@gmail.com	50	Professor	4

3 rows in set (0.000 sec)

```
MariaDB [case_study_crownrelo]> delete from customer where cust_mi = '';
Query OK, 1 row affected (0.049 sec)
```

```
MariaDB [case_study_crownrelo]> select*from customer;
```

cust_id	cust_fname	cust_mi	cust_lname	cust_cont	cust_add	cust_eadd	cust_num	cust_job	emp_id
2	David	A.	De Guzman	958741	Pasay	dadg@outlook.com	75	Engineer	2
4	Khina	C	Herrera	859642	Manila	Kyou@gmail.com	50	Professor	4

2 rows in set (0.000 sec)

```
MariaDB [case_study_crownrelo]> delete from customer where cust_num >25 and cust_num <55;
Query OK, 1 row affected (0.058 sec)
```

```
MariaDB [case_study_crownrelo]> select*from customer;
```

cust_id	cust_fname	cust_mi	cust_lname	cust_cont	cust_add	cust_eadd	cust_num	cust_job	emp_id
2	David	A.	De Guzman	958741	Pasay	dadg@outlook.com	75	Engineer	2

1 row in set (0.000 sec)

```
MariaDB [case_study_crownrelo]> delete from customer where cust_add like 'P%';
Query OK, 1 row affected (0.069 sec)
```

```
MariaDB [case_study_crownrelo]> select*from customer;
Empty set (0.000 sec)
```

Orders

```
MariaDB [case_study_crownrelo]> delete from orders where order_id = 4;  
Query OK, 1 row affected (0.082 sec)
```

```
MariaDB [case_study_crownrelo]> select*from orders;
```

order_id	order_date	order_desc	order_pick_up	order_drop_off	order_loc	cust_id
1	2019-09-21	relocation	Makati	Taguig	Makati	1
2	2019-01-24	logistics	Pasay	Taguig	Taguig	3
3	2019-09-21	relocation	Makati	Pasay	Makati	3
5	2019-09-22	relocation	Taguig	Quezon	Taguig	5

4 rows in set (0.000 sec)

```
MariaDB [case_study_crownrelo]> delete from orders where cust_id = 5;  
Query OK, 1 row affected (0.066 sec)
```

```
MariaDB [case_study_crownrelo]> select*from orders;
```

order_id	order_date	order_desc	order_pick_up	order_drop_off	order_loc	cust_id
1	2019-09-21	relocation	Makati	Taguig	Makati	1
2	2019-01-24	logistics	Pasay	Taguig	Taguig	3
3	2019-09-21	relocation	Makati	Pasay	Makati	3

3 rows in set (0.000 sec)

```
MariaDB [case_study_crownrelo]> delete from orders where order_drop_off IN ('Pasay');  
Query OK, 1 row affected (0.056 sec)
```

```
MariaDB [case_study_crownrelo]> select*from orders;
```

order_id	order_date	order_desc	order_pick_up	order_drop_off	order_loc	cust_id
1	2019-09-21	relocation	Makati	Taguig	Makati	1
2	2019-01-24	logistics	Pasay	Taguig	Taguig	3

2 rows in set (0.000 sec)

```
MariaDB [case_study_crownrelo]> delete from orders where order_desc like 'R%';  
Query OK, 1 row affected (0.053 sec)
```

```
MariaDB [case_study_crownrelo]> select*from orders;
```

order_id	order_date	order_desc	order_pick_up	order_drop_off	order_loc	cust_id
2	2019-01-24	logistics	Pasay	Taguig	Taguig	3

1 row in set (0.000 sec)

```
MariaDB [case_study_crownrelo]> delete from orders;  
Query OK, 1 row affected (0.143 sec)
```

```
MariaDB [case_study_crownrelo]> select*from orders;  
Empty set (0.000 sec)
```

Building

```
MariaDB [case_study_crownrelo]> delete from building where bldg_add in ('Pasay','Quezon');  
Query OK, 2 rows affected (0.073 sec)
```

```
MariaDB [case_study_crownrelo]> select*from building;
```

bldg_id	bldg_add	bldg_zip	cust_id
2	Taguig	1630	2
3	Makati	1200	3
4	Makati	1200	3

```
3 rows in set (0.000 sec)
```

```
MariaDB [case_study_crownrelo]> delete from building where cust_id = 4;  
Query OK, 0 rows affected (0.000 sec)
```

```
MariaDB [case_study_crownrelo]> select*from building;
```

bldg_id	bldg_add	bldg_zip	cust_id
2	Taguig	1630	2
3	Makati	1200	3
4	Makati	1200	3

```
3 rows in set (0.000 sec)
```

```
MariaDB [case_study_crownrelo]> delete from building where bldg_zip between 1600 and 1700;  
Query OK, 1 row affected (0.048 sec)
```

```
MariaDB [case_study_crownrelo]> select*from building;
```

```
+-----+-----+-----+-----+  
| bldg_id | bldg_add | bldg_zip | cust_id |  
+-----+-----+-----+-----+  
|      3 | Makati  |    1200 |      3 |  
|      4 | Makati  |    1200 |      3 |  
+-----+-----+-----+-----+  
2 rows in set (0.000 sec)
```

```
MariaDB [case_study_crownrelo]> delete from building where bldg_add = 'Makati';  
Query OK, 1 row affected (0.133 sec)
```

```
MariaDB [case_study_crownrelo]> select*from building;  
Empty set (0.000 sec)
```

```
MariaDB [case_study_crownrelo]> delete from building where bldg_id !=4;  
Query OK, 1 row affected (0.067 sec)
```

```
MariaDB [case_study_crownrelo]> select*from building;
```

```
+-----+-----+-----+-----+  
| bldg_id | bldg_add | bldg_zip | cust_id |  
+-----+-----+-----+-----+  
|      4 | Makati  |    1200 |      3 |  
+-----+-----+-----+-----+  
1 row in set (0.000 sec)
```

Item

```
MariaDB [case_study_crownrelo]> delete from item where item_qty >40;  
Query OK, 1 row affected (0.078 sec)
```

```
MariaDB [case_study_crownrelo]> select*from item;
```

item_id	item_name	item_type	item_qty	bldg_id	cust_id
1	sofa	furniture	5	1	2
2	T.V	appliance	20	2	1
4	Mona Lisa	art	5	4	4
5	encyclopedia	book	10	5	5

4 rows in set (0.000 sec)

```
MariaDB [case_study_crownrelo]> delete from item where item_name like ('M%');  
Query OK, 1 row affected (0.198 sec)
```

```
MariaDB [case_study_crownrelo]> select*from item;
```

item_id	item_name	item_type	item_qty	bldg_id	cust_id
1	sofa	furniture	5	1	2
2	T.V	appliance	20	2	1
5	encyclopedia	book	10	5	5

3 rows in set (0.000 sec)

```
MariaDB [case_study_crownrelo]> delete from item where item_id = 5;  
Query OK, 1 row affected (0.139 sec)
```

```
MariaDB [case_study_crownrelo]> select*from item;
```

item_id	item_name	item_type	item_qty	bldg_id	cust_id
1	sofa	furniture	5	1	2
2	T.V	appliance	20	2	1

2 rows in set (0.000 sec)

```
MariaDB [case_study_crownrelo]> delete from item where item_type in ('furniture');
Query OK, 1 row affected (0.275 sec)
```

```
MariaDB [case_study_crownrelo]> select*from item;
```

item_id	item_name	item_type	item_qty	bldg_id	cust_id
2	T.V	appliance	20	2	1

1 row in set (0.000 sec)

```
MariaDB [case_study_crownrelo]> delete from item where bldg_id <5;
Query OK, 1 row affected (0.184 sec)
```

```
MariaDB [case_study_crownrelo]> select*from item;
Empty set (0.000 sec)
```

Team

```
MariaDB [case_study_crownrelo]> delete from team where team_cont like '6%';
Query OK, 1 row affected (0.176 sec)
```

```
MariaDB [case_study_crownrelo]> select*from team;
```

team_id	team_cont	team_title	cust_id	emp_id
1	909546	sales and marketing	1	1
3	988746	external relations	1	3
4	988746	accounting	1	4
5	988746	human relations	1	5

4 rows in set (0.001 sec)

```
MariaDB [case_study_crownrelo]> delete from team where team_id = 1;  
Query OK, 1 row affected (0.182 sec)
```

```
MariaDB [case_study_crownrelo]> select*from team;
```

```
+-----+-----+-----+-----+-----+  
| team_id | team_cont | team_title | cust_id | emp_id |  
+-----+-----+-----+-----+-----+  
|      3 |    988746 | external relations |      1 |      3 |  
|      4 |    988746 | accounting |      1 |      4 |  
|      5 |    988746 | human relations |      1 |      5 |  
+-----+-----+-----+-----+-----+  
3 rows in set (0.000 sec)
```

```
MariaDB [case_study_crownrelo]> delete from team where emp_id in ('3');  
Query OK, 1 row affected (0.061 sec)
```

```
MariaDB [case_study_crownrelo]> select*from team;
```

```
+-----+-----+-----+-----+-----+  
| team_id | team_cont | team_title | cust_id | emp_id |  
+-----+-----+-----+-----+-----+  
|      4 |    988746 | accounting |      1 |      4 |  
|      5 |    988746 | human relations |      1 |      5 |  
+-----+-----+-----+-----+-----+  
2 rows in set (0.000 sec)
```

```
MariaDB [case_study_crownrelo]> delete from team where team_title like 'B%' OR team_title like 'h%';  
Query OK, 1 row affected (0.076 sec)
```

```
MariaDB [case_study_crownrelo]> select*from team;
```

```
+-----+-----+-----+-----+-----+  
| team_id | team_cont | team_title | cust_id | emp_id |  
+-----+-----+-----+-----+-----+  
|      4 |    988746 | accounting |      1 |      4 |  
+-----+-----+-----+-----+-----+  
1 row in set (0.000 sec)
```

```
MariaDB [case_study_crownrelo]> delete from team where team_cont like '_88%';  
Query OK, 1 row affected (0.097 sec)
```

```
MariaDB [case_study_crownrelo]> select*from team;  
Empty set (0.000 sec)
```


Vehicle

```
MariaDB [case_study_crownrelo]> delete from vehicle where veh_pnum like 'A%';  
Query OK, 1 row affected (0.070 sec)
```

```
MariaDB [case_study_crownrelo]> select*from vehicle;
```

veh_id	veh_name	veh_pnum	veh_color	veh_brand	emp_id
2	Crown	DEF-456	Black	Toyota	2
3	Cher	GHI-789	Green	Hyundai	3
4	Crown	JKL-012	Red	Toyota	4
5	Pajero	NHI-245	Red	Mitsubishi	5

4 rows in set (0.000 sec)

```
MariaDB [case_study_crownrelo]> delete from vehicle where veh_brand = 'Hyundai';  
Query OK, 1 row affected (0.184 sec)
```

```
MariaDB [case_study_crownrelo]> select*from vehicle;
```

veh_id	veh_name	veh_pnum	veh_color	veh_brand	emp_id
2	Crown	DEF-456	Black	Toyota	2
4	Crown	JKL-012	Red	Toyota	4
5	Pajero	NHI-245	Red	Mitsubishi	5

3 rows in set (0.000 sec)

```
MariaDB [case_study_crownrelo]> delete from vehicle where veh_name like 'Paje%';  
Query OK, 1 row affected (0.055 sec)
```

```
MariaDB [case_study_crownrelo]> select*from vehicle;
```

veh_id	veh_name	veh_pnum	veh_color	veh_brand	emp_id
2	Crown	DEF-456	Black	Toyota	2
4	Crown	JKL-012	Red	Toyota	4

2 rows in set (0.000 sec)

```
MariaDB [case_study_crownrelo]> delete from vehicle where veh_color in ('red');
Query OK, 1 row affected (0.071 sec)
```

```
MariaDB [case_study_crownrelo]> select*from vehicle;
```

```
+-----+-----+-----+-----+-----+-----+
| veh_id | veh_name | veh_pnum | veh_color | veh_brand | emp_id |
+-----+-----+-----+-----+-----+-----+
|      2 | Crown    | DEF-456  | Black     | Toyota    |      2 |
+-----+-----+-----+-----+-----+-----+
1 row in set (0.000 sec)
```

```
MariaDB [case_study_crownrelo]> delete from vehicle;
Query OK, 1 row affected (0.048 sec)
```

```
MariaDB [case_study_crownrelo]> select*from vehicle;
Empty set (0.000 sec)
```

Transaction

```
MariaDB [case_study_crownrelo]> delete from transaction where tran_loc in ('Manila');
Query OK, 1 row affected (0.171 sec)
```

```
MariaDB [case_study_crownrelo]> select*from transaction;
```

```
+-----+-----+-----+-----+-----+
| tran_id | tran_type | tran_date | tran_loc | emp_id |
+-----+-----+-----+-----+-----+
|      1 | payment   | 2019-02-20 | Taguig   |      4 |
|      4 | delivery  | 2019-09-01 | Taguig   |      1 |
|      5 | relocation | 2019-09-23 | Makati   |      5 |
+-----+-----+-----+-----+-----+
3 rows in set (0.000 sec)
```

```
MariaDB [case_study_crownrelo]> delete from transaction where tran_id = 3;  
Query OK, 1 row affected (0.078 sec)
```

```
MariaDB [case_study_crownrelo]> select*from transaction;  
+-----+-----+-----+-----+-----+  
| tran_id | tran_type | tran_date | tran_loc | emp_id |  
+-----+-----+-----+-----+-----+  
|      1 | payment  | 2019-02-20 | Taguig   |      4 |  
|      2 | relocation | 2019-08-18 | Manila   |      2 |  
|      4 | delivery  | 2019-09-01 | Taguig   |      1 |  
|      5 | relocation | 2019-09-23 | Makati   |      5 |  
+-----+-----+-----+-----+-----+  
4 rows in set (0.000 sec)
```

```
MariaDB [case_study_crownrelo]> delete from transaction where tran_type like 'deli%';  
Query OK, 1 row affected (0.040 sec)
```

```
MariaDB [case_study_crownrelo]> select*from transaction;  
+-----+-----+-----+-----+-----+  
| tran_id | tran_type | tran_date | tran_loc | emp_id |  
+-----+-----+-----+-----+-----+  
|      1 | payment  | 2019-02-20 | Taguig   |      4 |  
|      5 | relocation | 2019-09-23 | Makati   |      5 |  
+-----+-----+-----+-----+-----+  
2 rows in set (0.000 sec)
```

```
MariaDB [case_study_crownrelo]> delete from transaction where tran_date = '2019-02-20';  
Query OK, 1 row affected (0.106 sec)
```

```
MariaDB [case_study_crownrelo]> select*from transaction;  
+-----+-----+-----+-----+-----+  
| tran_id | tran_type | tran_date | tran_loc | emp_id |  
+-----+-----+-----+-----+-----+  
|      5 | relocation | 2019-09-23 | Makati   |      5 |  
+-----+-----+-----+-----+-----+  
1 row in set (0.000 sec)
```

```
MariaDB [case_study_crownrelo]> delete from transaction where tran_loc != 'Manila';  
Query OK, 1 row affected (0.059 sec)
```

```
MariaDB [case_study_crownrelo]> select*from transaction;  
Empty set (0.000 sec)
```

Payment

```
MariaDB [case_study_crownrelo]> delete from payment where payment_amt between 1000.00 and 1200.00;
Query OK, 1 row affected (0.099 sec)
```

```
MariaDB [case_study_crownrelo]> select*from payment;
```

payment_id	payment_type	payment_amt	payment_date	emp_id	cust_id
1	credit	5000.00	2019-02-20	1	1
2	debit	5000.00	2019-08-24	1	2
3	credit	5250.75	2019-08-18	3	3
4	cash	2000.00	2019-09-02	4	4

4 rows in set (0.000 sec)

```
MariaDB [case_study_crownrelo]> delete from payment where payment_id = 3;
Query OK, 1 row affected (0.076 sec)
```

```
MariaDB [case_study_crownrelo]> select*from payment;
```

payment_id	payment_type	payment_amt	payment_date	emp_id	cust_id
1	credit	5000.00	2019-02-20	1	1
2	debit	5000.00	2019-08-24	1	2
4	cash	2000.00	2019-09-02	4	4

3 rows in set (0.000 sec)

```
ERROR 1054 (42S22): Unknown column 'payment_type' in 'where clause'
```

```
MariaDB [case_study_crownrelo]> delete from payment where payment_type like 'cr%';
Query OK, 1 row affected (0.090 sec)
```

```
MariaDB [case_study_crownrelo]> delete from transaction where payment_type like 'cr%';
ERROR 1054 (42S22): Unknown column 'payment_type' in 'where clause'
```

```
MariaDB [case_study_crownrelo]> select*from payment;
```

payment_id	payment_type	payment_amt	payment_date	emp_id	cust_id
2	debit	5000.00	2019-08-24	1	2
4	cash	2000.00	2019-09-02	4	4

2 rows in set (0.000 sec)

```
MariaDB [case_study_crownrelo]> delete from payment where emp_id = 1;
Query OK, 1 row affected (0.093 sec)
```

```
MariaDB [case_study_crownrelo]> select*from payment;
```

```
+-----+-----+-----+-----+-----+-----+
| payment_id | payment_type | payment_amt | payment_date | emp_id | cust_id |
+-----+-----+-----+-----+-----+-----+
|          4 | cash        |      2000.00 | 2019-09-02   |      4 |      4 |
+-----+-----+-----+-----+-----+-----+
1 row in set (0.000 sec)
```

```
MariaDB [case_study_crownrelo]> delete from payment where payment_amt != 2500.00;
Query OK, 1 row affected (0.066 sec)
```

```
MariaDB [case_study_crownrelo]> select*from payment;
Empty set (0.000 sec)
```

Select

```
MariaDB [case_study_crownrelo]> select emp_lname,emp_eadd from employees where emp_is_admin ='1';
```

```
+-----+-----+
| emp_lname | emp_eadd |
+-----+-----+
| Buada     | fielbuada@gmail.com |
| Cruz      | jdc@gmail.com |
| Herrera   | dhd@gmail.com |
+-----+-----+
3 rows in set (0.036 sec)
```

```
MariaDB [case_study_crownrelo]> select * from employees;
```

```
+-----+-----+-----+-----+-----+-----+-----+-----+
| emp_id | emp_fname | emp_mi | emp_lname | emp_cont | emp_add | emp_eadd | emp_is_admin |
+-----+-----+-----+-----+-----+-----+-----+-----+
| 1 | Fiel | M. | Buada | 2147483647 | Tanza, Cavite | fielbuada@gmail.com | 1 |
| 2 | Joemari | | Boto | 622591 | Makati | jboto@yahoo.com | 0 |
| 3 | Wish | T. | Mustary | 912345 | Taguig | wishmustary@outlook.com | 0 |
| 4 | Juan | D. | Cruz | 655478 | Makati | jdc@gmail.com | 1 |
| 5 | Diwel | H. | Herrera | 6994583 | Manila | dhd@gmail.com | 1 |
+-----+-----+-----+-----+-----+-----+-----+-----+
5 rows in set (0.000 sec)
```

```
MariaDB [case_study_crownrelo]> select cust_lname, cust_cont from customer;
+-----+-----+
| cust_lname | cust_cont |
+-----+-----+
| Marquez   | 658990    |
| De Guzman  | 958741    |
| Penduko    | 666999    |
| Herrera    | 859642    |
| Sta. Ana   | 923561    |
+-----+-----+
5 rows in set (0.000 sec)
```

```
MariaDB [case_study_crownrelo]> select cust_eadd from customer where cust_fname like 'T%';
+-----+
| cust_eadd |
+-----+
| pbm@yahoo.com |
+-----+
```

```
MariaDB [case_study_crownrelo]> select order_date, order_loc from orders order by order_date;
+-----+-----+
| order_date | order_loc |
+-----+-----+
| 2019-01-24 | Taguig    |
| 2019-08-15 | Makati    |
| 2019-08-15 | Makati    |
| 2019-09-21 | Pasay     |
| 2019-09-22 | Taguig    |
+-----+-----+
5 rows in set (0.000 sec)
```

```
MariaDB [case_study_crownrelo]> select distinct(order_desc) from orders;
+-----+
| order_desc |
+-----+
| relocation |
| logistics  |
+-----+
```

```
MariaDB [case_study_crownrelo]> select bldg_add, bldg_zip from building where bldg_id = 1 OR cust_id = 5;
```

bldg_add	bldg_zip
Pasay	1300
Pasay	1300

```
2 rows in set (0.000 sec)
```

```
MariaDB [case_study_crownrelo]> select bldg_add, count(bldg_add) from building group by bldg_add;
```

bldg_add	count(bldg_add)
Makati	2
Pasay	2
Taguig	1

```
3 rows in set (0.000 sec)
```

```
MariaDB [case_study_crownrelo]> select item_name, item_qty from item where item_qty between 1 and 5;
```

item_name	item_qty
sofa	3
T.V	1
painting	5

```
3 rows in set (0.000 sec)
```

```
MariaDB [case_study_crownrelo]> select * from item where cust_id in ('1','2');
+-----+-----+-----+-----+-----+-----+
| item_id | item_name | item_type | item_qty | bldg_id | cust_id |
+-----+-----+-----+-----+-----+-----+
|      1 | sofa     | furniture |      3 |      1 |      2 |
|      2 | T.V      | appliance |      1 |      2 |      1 |
+-----+-----+-----+-----+-----+-----+
2 rows in set (0.000 sec)
```

```
MariaDB [case_study_crownrelo]> select team_title, emp_id, cust_id from team where team_cont like '_91%';
+-----+-----+-----+
| team_title | emp_id | cust_id |
+-----+-----+-----+
| accounting |      5 |      4 |
| human relations |      5 |      5 |
+-----+-----+-----+
2 rows in set (0.000 sec)
```

```
MariaDB [case_study_crownrelo]> select* from team where team_id = 4 AND emp_id = 5;
+-----+-----+-----+-----+-----+
| team_id | team_cont | team_title | cust_id | emp_id |
+-----+-----+-----+-----+-----+
|      4 | 6910047 | accounting |      4 |      5 |
+-----+-----+-----+-----+-----+
```

```
MariaDB [case_study_crownrelo]> select veh_name, veh_brand, emp_id from vehicle where veh_color = 'Gray';
+-----+-----+-----+
| veh_name | veh_brand | emp_id |
+-----+-----+-----+
| Cher     | Hyundai   |      3 |
| Innova   | Toyota    |      4 |
+-----+-----+-----+
2 rows in set (0.000 sec)
```



```
MariaDB [case_study_crownrelo]> select distinct count(veh_brand) from vehicle;
```

count(veh_brand)
5

```
1 row in set (0.000 sec)
```

```
MariaDB [case_study_crownrelo]> select * from transaction order by tran_date;
```

tran_id	tran_type	tran_date	tran_loc	emp_id
1	payment	2019-02-20	Taguig	1
2	relocation	2019-08-18	Manila	2
3	relocation	2019-08-18	Manila	3
4	payment	2019-09-01	Pasay	4
5	payment	2019-09-23	Makati	5

```
5 rows in set (0.000 sec)
```

```
MariaDB [case_study_crownrelo]> select tran_type, tran_date, tran_loc, count(tran_type) from transaction group by tran_type;
```

tran_type	tran_date	tran_loc	count(tran_type)
payment	2019-02-20	Taguig	3
relocation	2019-08-18	Manila	2

```
2 rows in set (0.001 sec)
```

```
MariaDB [case_study_crownrelo]> select emp_id, payment_type from payment group by payment_type;
```

emp_id	payment_type
1	cash
3	credit
1	debit

```
3 rows in set (0.000 sec)
```

```
MariaDB [case_study_crownrelo]> select cust_id, payment_amt from payment order by payment_amt asc;
+-----+-----+
| cust_id | payment_amt |
+-----+-----+
| 5 | 1050.00 |
| 4 | 2000.00 |
| 3 | 5250.75 |
| 1 | 9999.99 |
| 2 | 9999.99 |
+-----+-----+
5 rows in set (0.000 sec)
```

Appendices:

Screen Design for the System Prototype



CROWN  **RELOCATIONS**

Welcome!

Crown Relocations is proud to be a service provider for the management of your company's relocation services as part of your mobility program.

Username:

Password:

LOG IN


This is the login page, where Crown's customers would be able to keep track of their orders. This leads to the home page of the site. If the customer has not been registered yet for the company's services, they will be directed immediately on the site's homepage.



This is the home page, where users will be able to view Crown's features, specifically, its logistical and relocations services. There are also additional features like destination guides and contacts in case the user needs more information. Availing Crown's services will lead to the customer registration page, assuming the user has not registered yet.

The image shows the customer registration form on the Crown Relocations website. The form is titled "CUSTOMER REGISTRATION" in bold, italicized, black text. Below the title, there are several input fields for user information: "First Name:", "Middle Name:", "Last Name:", "Customer Job:", "Complete Address:", "Contact Number:", and "Email Address:". Each field is represented by a red rectangular box. At the bottom center of the form, there is a red button labeled "REGISTER".


This is the customer registration interface. Data entered here will be put in the *customer* database. Upon successful registration this will lead to the order interface, where customers can place the services they want to avail.



ORDER FORM

Customer Full Name: <input style="width: 100%;" type="text"/>	Order: <input style="width: 100%;" type="text"/>
Contact Number: <input style="width: 100%;" type="text"/>	Type of order: <input style="width: 100%;" type="text"/>
Email Address: <input style="width: 100%;" type="text"/>	Order Date: <input style="width: 100%;" type="text"/>
	Order Quantity: <input style="width: 100%;" type="text"/>

By accomplishing this order form, customers can avail Crown's Services. Data entered here will be put in the *orders* where employees can view the order can offer the proper services.



TRANSACTION INFORMATION

Moving from: Country* <input style="width: 100%;" type="text" value="-select country-"/> City* <input style="width: 100%;" type="text"/>	Moving to: Country* <input style="width: 100%;" type="text" value="-select country-"/> City* <input style="width: 100%;" type="text"/>	Estimated Dates: Moving * <input style="width: 100%;" type="text"/> Delivery* <input style="width: 100%;" type="text"/>
---	---	--

Data input from this interface will also be saved at the *orders* table. Specifically, the pick-up and drop-off points of the items that customer would want to relocate.



VEHICLE AVAILABILITY

VEHICLE PLATE NUMBER:

VEHICLE COLOR:

VEHICLE TYPE:

DATE OF DELIVERY:

[PROCEED TO DRIVER AVAILABILITY](#)

This interface will check if the vehicle is available. The necessary information will be coming from the *vehicle* database. However, the 'Date of Delivery' input will be from *transaction* table. Accomplishing this form will allow the user to check driver availability.



DRIVER AVAILABILITY

DRIVERS NAME:

DRIVER HOURS:

VEHICLE HE/SHE DRIVES:

DRIVERS LICENSE:

[PROCEED TO PAYMENT](#)

Information entered here will be checked with the information on the *driver* table. Since an employee can operate a single vehicle, that employee is also recorded on the *driver* table. Accomplishing this form will direct to the payment interface.

CROWN RELOCATIONS

PAYMENT

Customer Full Name:

Amount to be paid:

Payment Type:

Payment Date:

Order:

Type of order:

Order Date:

Order Quantity:

FINISH PAYMENT

In the payment interface, this is where customers can place their appropriate payments for the services they availed. Data entered in 'Customer Full Name' will be cross checked on the data stored in the *customer* table. Meanwhile, data entered on 'Order', 'Type of Order', 'Order Date', and 'Order Quantity' will be checked on the data stored on *orders* table. Lastly, data entered on 'Amount to be paid', 'Payment Type', 'Payment Date', will be stored on payment table. This is where an employee will process the order and payment of the customer.

CROWN RELOCATIONS

Customers Order:

Paid:

Customers Name:

Customers Email:

Customers Contact:

Customers Address:

Customers ID number:

Order Type:

Order Date:

Quantity:

On the employee's side, this is where they'll be able to process a customer order. Anything related to customer will have its data on the *customer* table, as well as anything related to order will be coming from the *orders* table. An order is complete is the customer has paid the availed services and the company in doing their part of providing quality and excellent service.

Interviews

The following is a record of the interview the proponents had with an employee of Crown.

What is your company name?

“Crown Worldwide Group”

Discuss what is your Company all About?

“In a nutshell, Crown is a logistics company that specializes in transporting good from one place to another.”

Does your Company have different branches?

“Crown have five (5) branches: Crown Fine Art, Crown Records Management, Crown Wine Cellars, Crown World Mobility, and Crown Relations. I am under the Crow Relocations brand where we focus on good transportation both locally and internationally.”

What are your Company Procedures/ Processes?

“Under the Crown Relocations Brand, I am part of the Manila Lead Center team. We do leads management for the Asia Pacific Region. From our website, prospective clients will input their quotation requests for relocation. A lead will then be created and will be routed to a specific lead center depending on the country of origin. Once a lead is generated and routed to our lead center, we will then get in touch with clients, gather more information, sift through quality leads then endorse to the right sales team. The sales team will then generate a quotation in a form of a service proposal then will try to win the business directly from the client. This will be a ‘booked’ file that will be endorsed to actual field service team that will physically handle the relocation.”

Copy of Company Procedures/Processes

1. A client will input quotations for relocation requests.
2. A lead will be generated and will be sent to a specific lead center, depending on the country of origin.
3. Once a lead is generated, the company will now get in touch with clients to gather more information and sift through quality leads.
4. The client will be endorsed to the right sales team.
5. The sales team will generate a service proposal to try and win the business from the client.
6. A 'booked' file will be endorsed to the actual field service team.
7. The field service team will now then physically handle the relocation.

References:

(n.d.). About Crown. Retrieved from <https://www.crownworldwide.com/en-us/about-crown-worldwide>

(n.d.). About The Crown Group. Retrieved from <https://www.crownrelo.com/intl/en-ph/page/about-crown-worldwide-group-Relocations>