ASIA PACIFIC COLLEGE

School of Computing and Information Technologies

A Database design for StarCity

In Partial Fulfillment of the Requirements

for the Course in Database Management 1

(DATAMA1)

By

Bermudo, Jesus

Cisnero, Rowin Steven

Eler, Daniel B.

September 2019

Introduction

Company Profile

Star City is controlled by people in the industry of amusement and professional with sufficient expertise for the park be operated. Furthermore, the technology within the park undergo serious checking by professionals and certified consultants. Foreign consultants visited and did some proceedings, shared their expertise in this field: amusements and attractions.

Over time, the star city is now one of the attractions that is featured in Phillippine center for international trade and exhibitions. It started as kiddie attraction in toys gifts fair until it go on a separate direction to expand in 1991.

Business Transactions

Star City is a pioneer of introducing the concept of combining retail and amusement that was adopted by most of the malls that with the same concept: attractions and marketing. Their targets are the Filipino families, schools, and companies. They also have theater shows of foreign performing artists in their Star Theater. They offer a lot of rides for any age such as Grand Carousel which accommodates up to 72 riders. Adults can ride Viking, Surf Dance, Jungle Splash and more. They also let their customers experience real snow with their Snow World. They

also provide advanced technologies with their 4D attraction with their lazer blaster and

4D MaxRider.

Objectives of the Study

General Objectives

·   To study the company's business transactions

·   To propose solutions for the company to have easy management on their data

Specific Objectives

·   To provide create two-way business rules according to the business transactions

·   To create an Entity Relationship Diagram using Crow's Foot Model

·   To create an Extended Entity Relationship Diagram

·   To create a Relational Diagram

Scope and Limitation of the Study

The researchers should only study the company Star Parks Corporation or most commonly known as Star City located in CCP Complex, Sotto Corner Jalandoni Street, 1300 Roxas Blvd, Pasay. It will focus on company business transaction, employees and customers. The researchers should only use the data gathered in making a database system to be proposed for the said company.
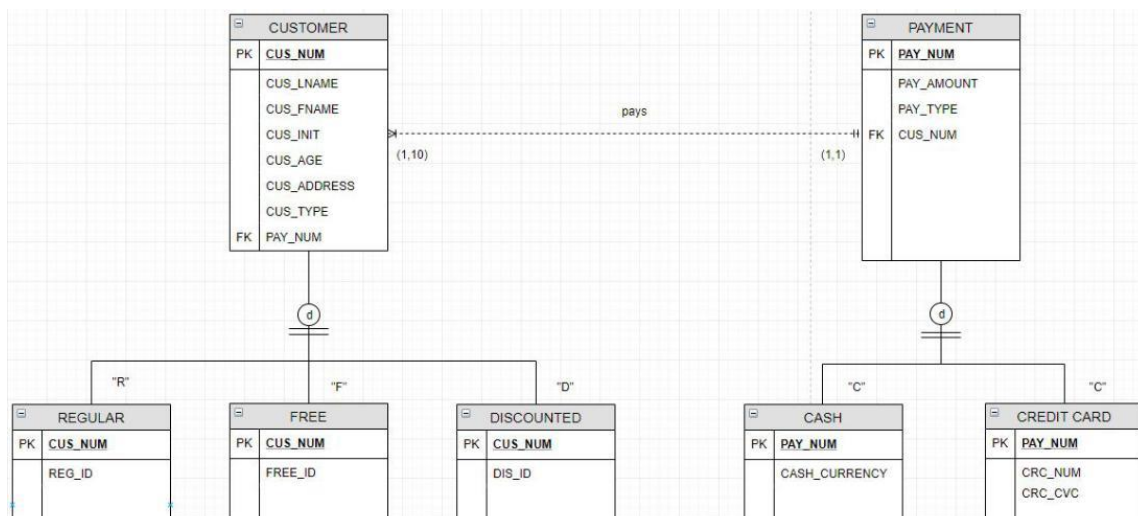
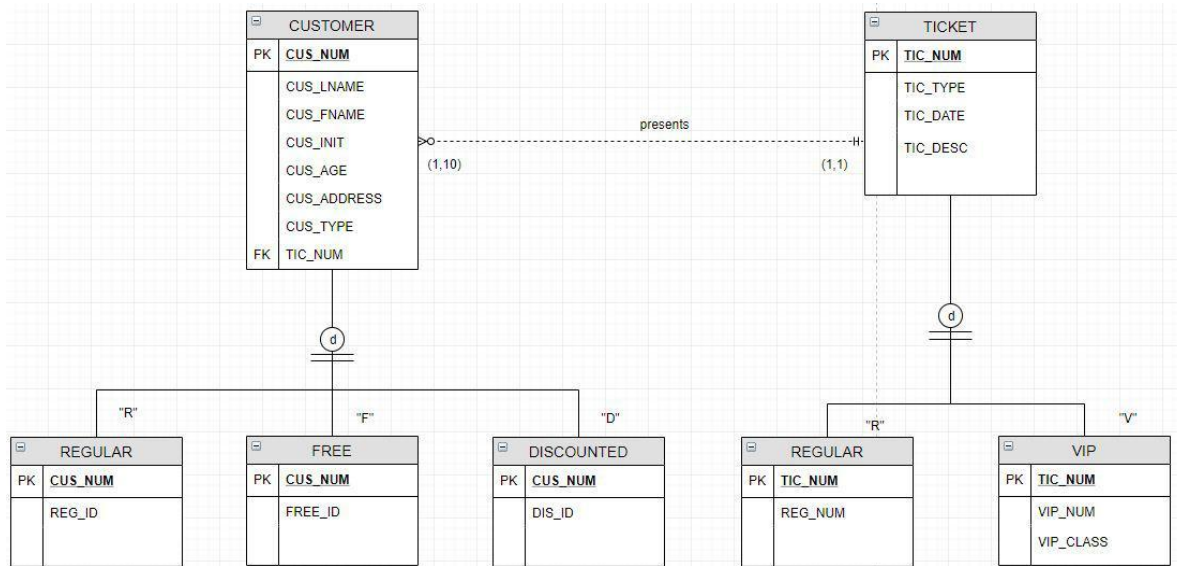# CHAPTER 2

Business Rules

1. Zero or many CUSTOMER buys one TICKET; One TICKET is

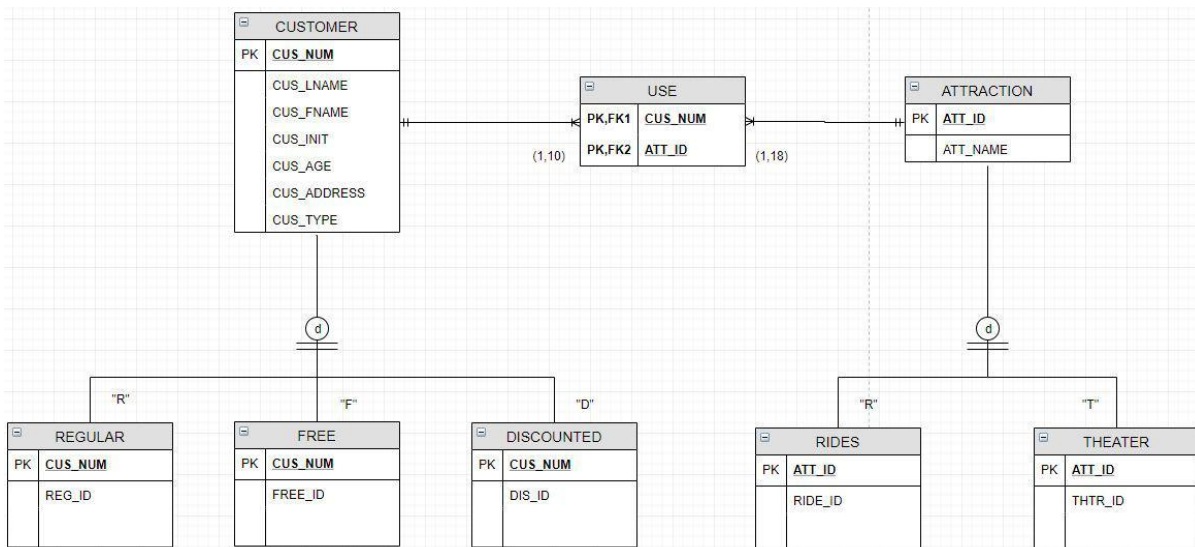   bought by zero or many CUSTOMER.
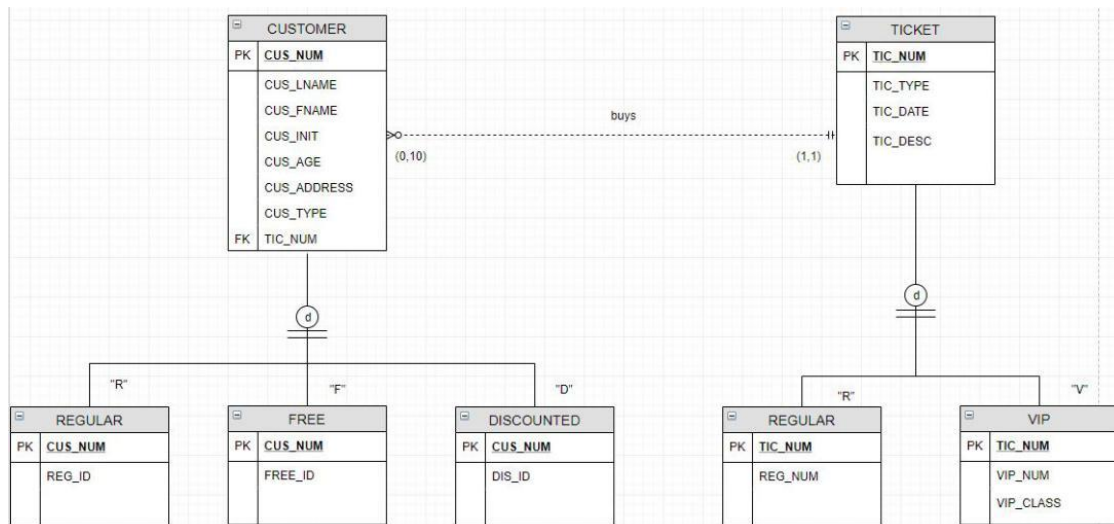
2. One or many CUSTOMER pays one PAYMENT. A PAYMENT is

    paid by zero or many CUSTOMER.

3. One or many CUSTOMER presents a TICKET; A TICKET is
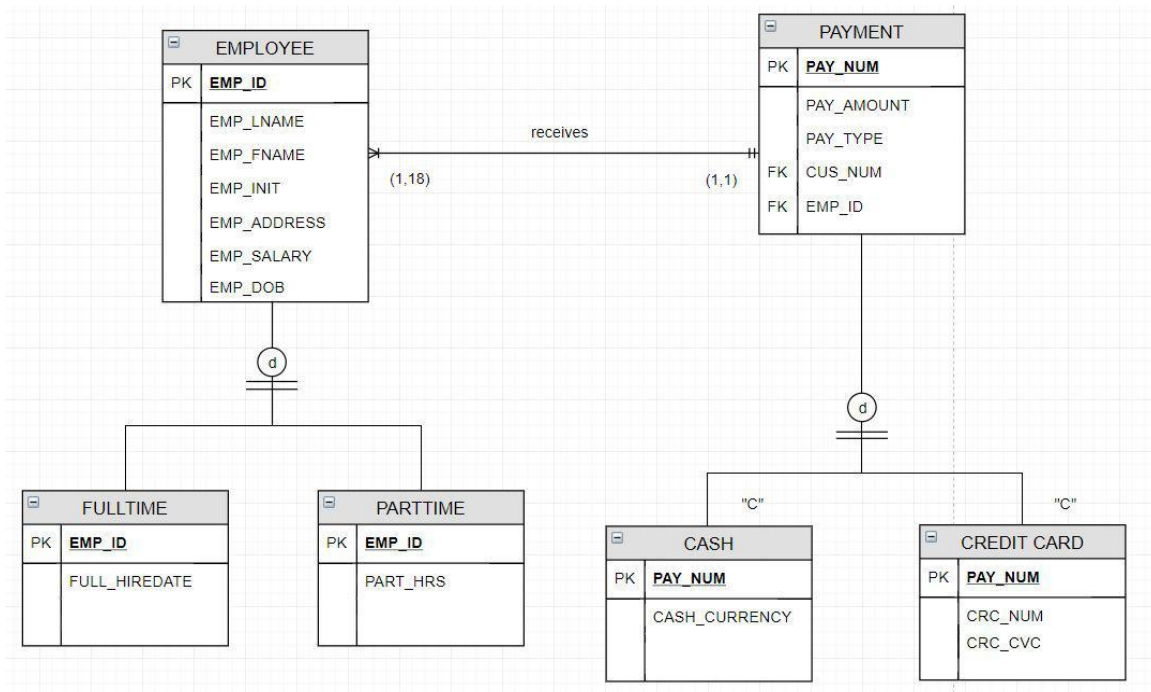
presented by one or many CUSTOMER

CUSTOMER

PK	CUS_NUM
	CUS_LNAME
	CUS_FNAME
	CUS_INIT
	CUS_AGE
	CUS_ADDRESS
	CUS_TYPE
FK	TIC_NUM

presents (1,10) — (1,1)

TICKET

PK	TIC_NUM
	TIC_TYPE
	TIC_DATE
	TIC_DESC

"R" **REGULAR**

PK	CUS_NUM
	REG_ID

"F" **FREE**

PK	CUS_NUM
	FREE_ID

"D" **DISCOUNTED**

PK	CUS_NUM
	DIS_ID

"R" **REGULAR**

PK	TIC_NUM
	REG_NUM

"V" **VIP**

PK	TIC_NUM
	VIP_NUM
	VIP_CLASS

4. One or many CUSTOMER use one or many

ATTRACTION; one or many ATTRACTION are used by

one or many CUSTOMER.

CUSTOMER

PK	CUS_NUM
	CUS_LNAME
	CUS_FNAME
	CUS_INIT
	CUS_AGE
	CUS_ADDRESS
	CUS_TYPE

(1,10)

USE

PK,FK1	CUS_NUM
PK,FK2	ATT_ID

(1,18)

ATTRACTION

PK	ATT_ID
	ATT_NAME

"R" **REGULAR**

PK	CUS_NUM
	REG_ID

"F" **FREE**

PK	CUS_NUM
	FREE_ID

"D" **DISCOUNTED**

PK	CUS_NUM
	DIS_ID

"R" **RIDES**

PK	ATT_ID
	RIDE_ID

"T" **THEATER**
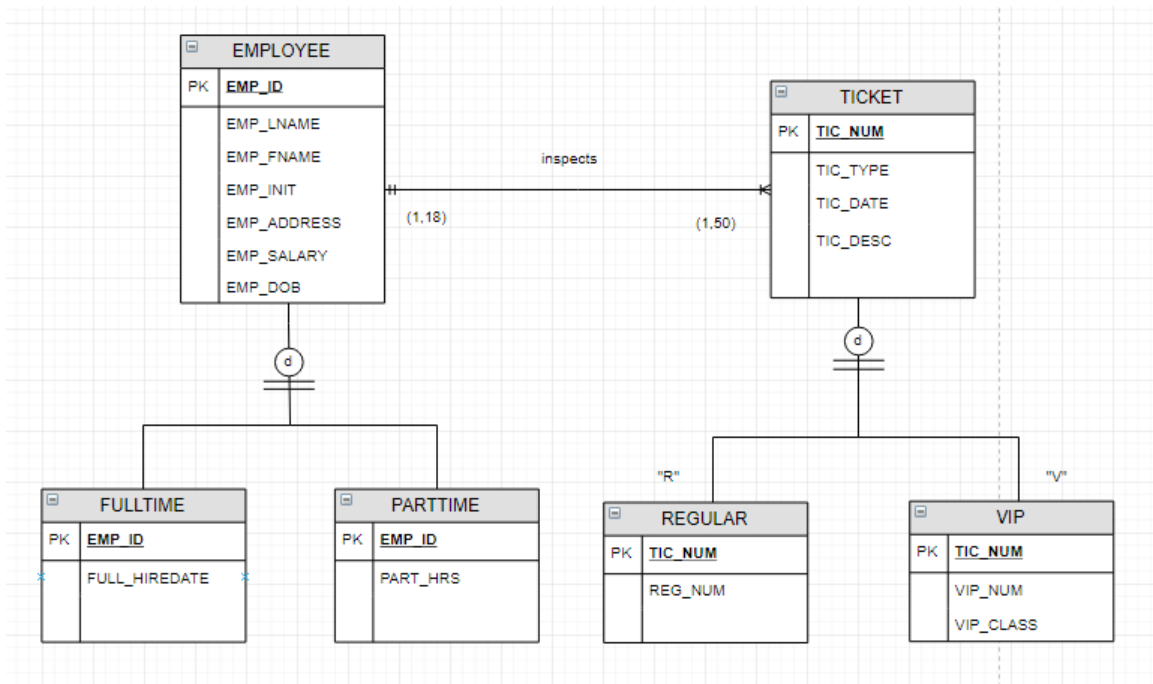
PK	ATT_ID
	THTR_ID

5. One or Many EMPLOYEE sells one or many TICKET, one or many TICKET sold by one or many EMPLOYEE.
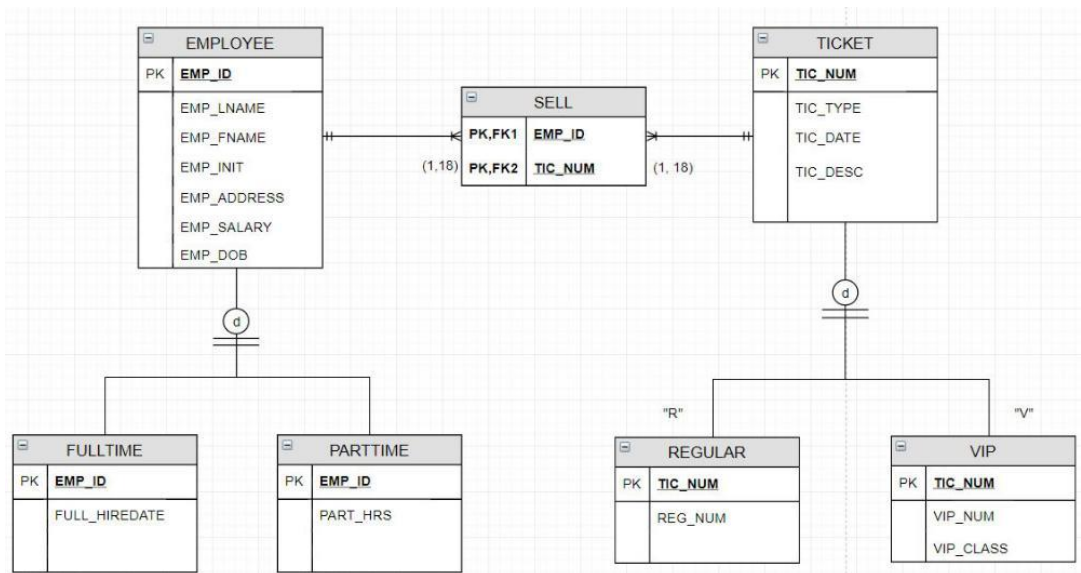

6. One or many EMPLOYEE receives one PAYMENT; One PAYMENT are received by one or many EMPLOYEE.

7. An EMPLOYEE inspects one or many TICKET; one or many
   TICKET is inspected by an EMPLOYEE.

	EMPLOYEE
PK	EMP_ID
	EMP_LNAME
	EMP_FNAME
	EMP_INIT
	EMP_ADDRESS
	EMP_SALARY
	EMP_DOB

inspects

(1,18)

(1,50)

	TICKET
PK	TIC_NUM
	TIC_TYPE
	TIC_DATE
	TIC_DESC

	FULLTIME
PK	EMP_ID
	FULL_HIREDATE

	PARTTIME
PK	EMP_ID
	PART_HRS

"R"

	REGULAR
PK	TIC_NUM
	REG_NUM

"V"

	VIP
PK	TIC_NUM
	VIP_NUM
	VIP_CLASS

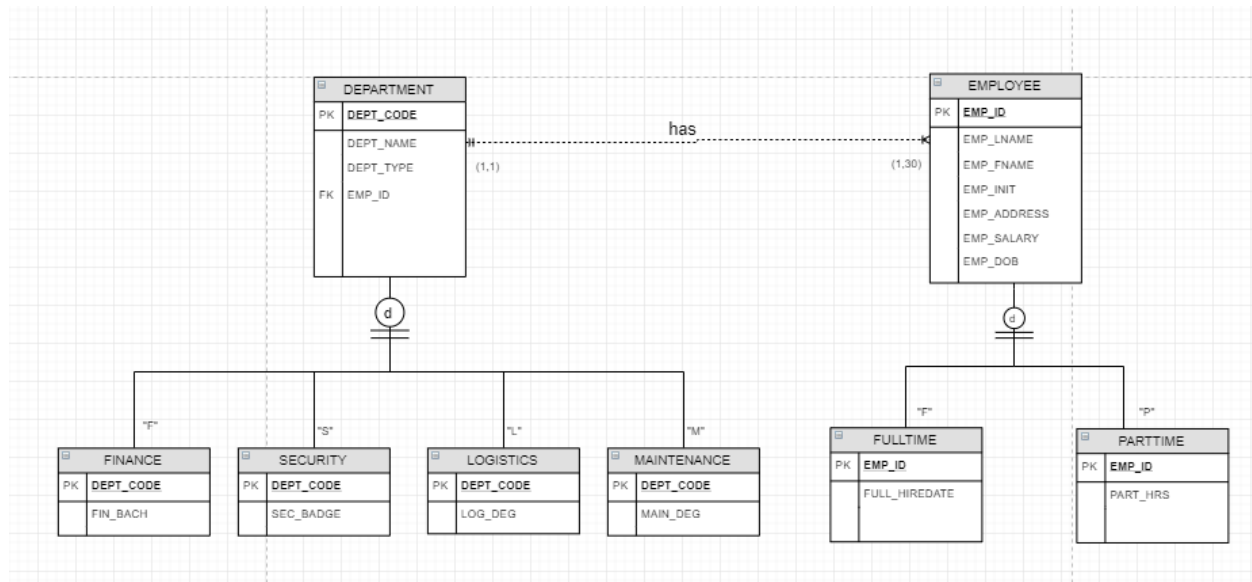8. One or many EMPLOYEE manages one ATTRACTION; one ATTRACTION is managed by one or many EMPLOYEE.
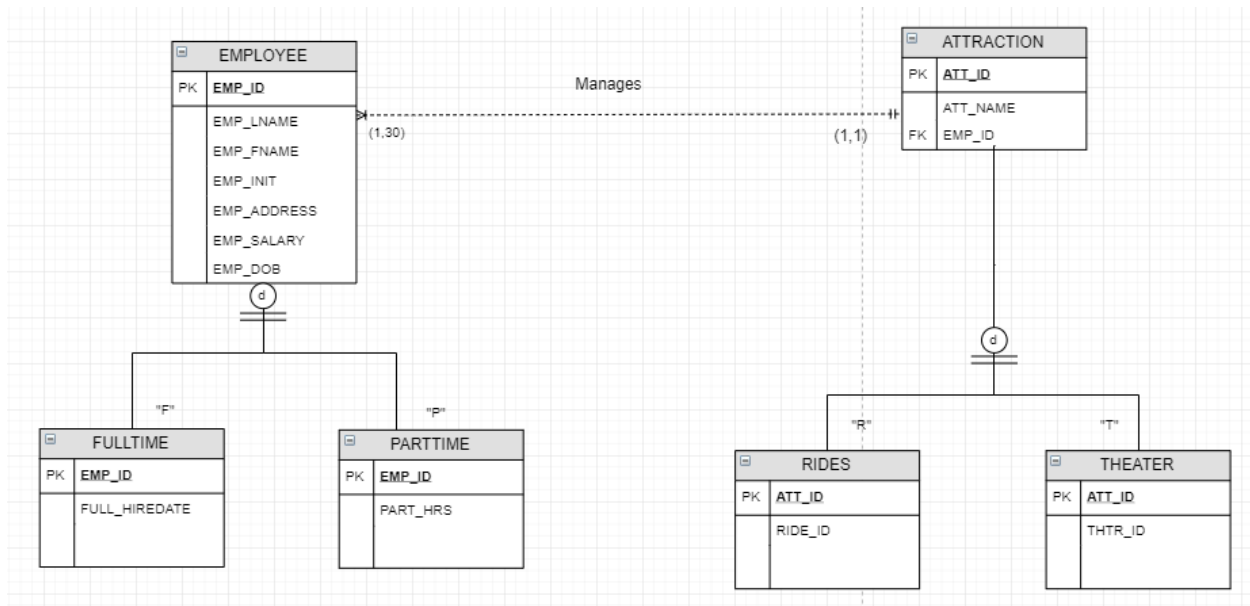
9. One or many EMPLOYEE maintains one or many ATTRACTION; one or many ATTRACTION is maintained by one or many EMPLOYEE.
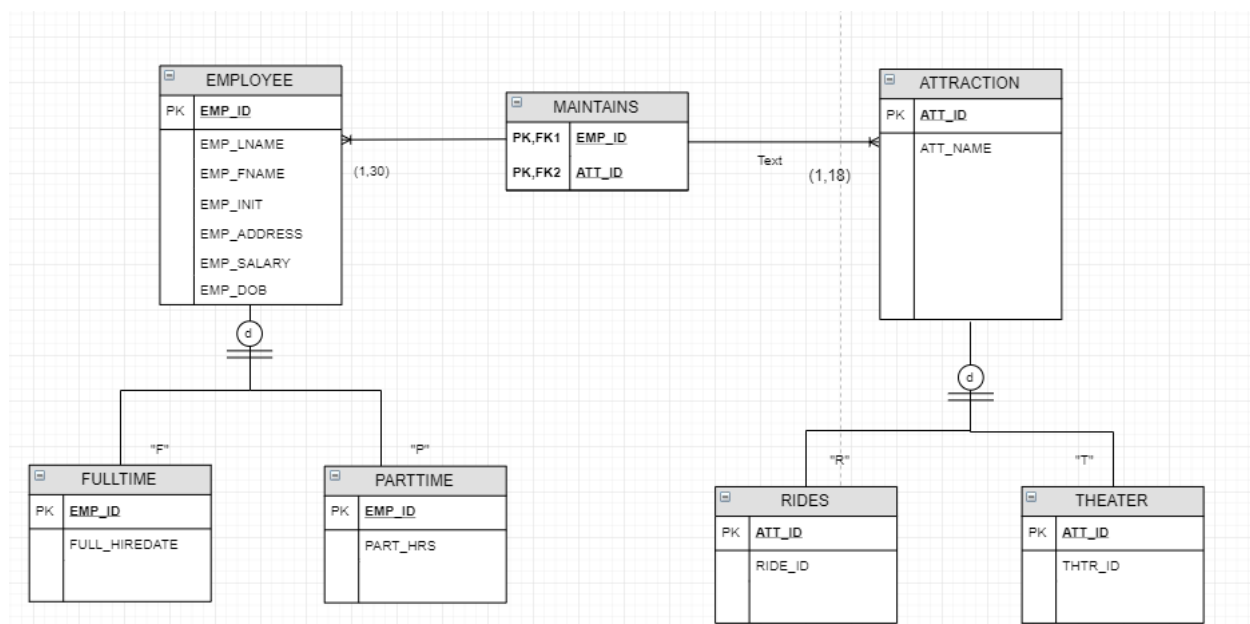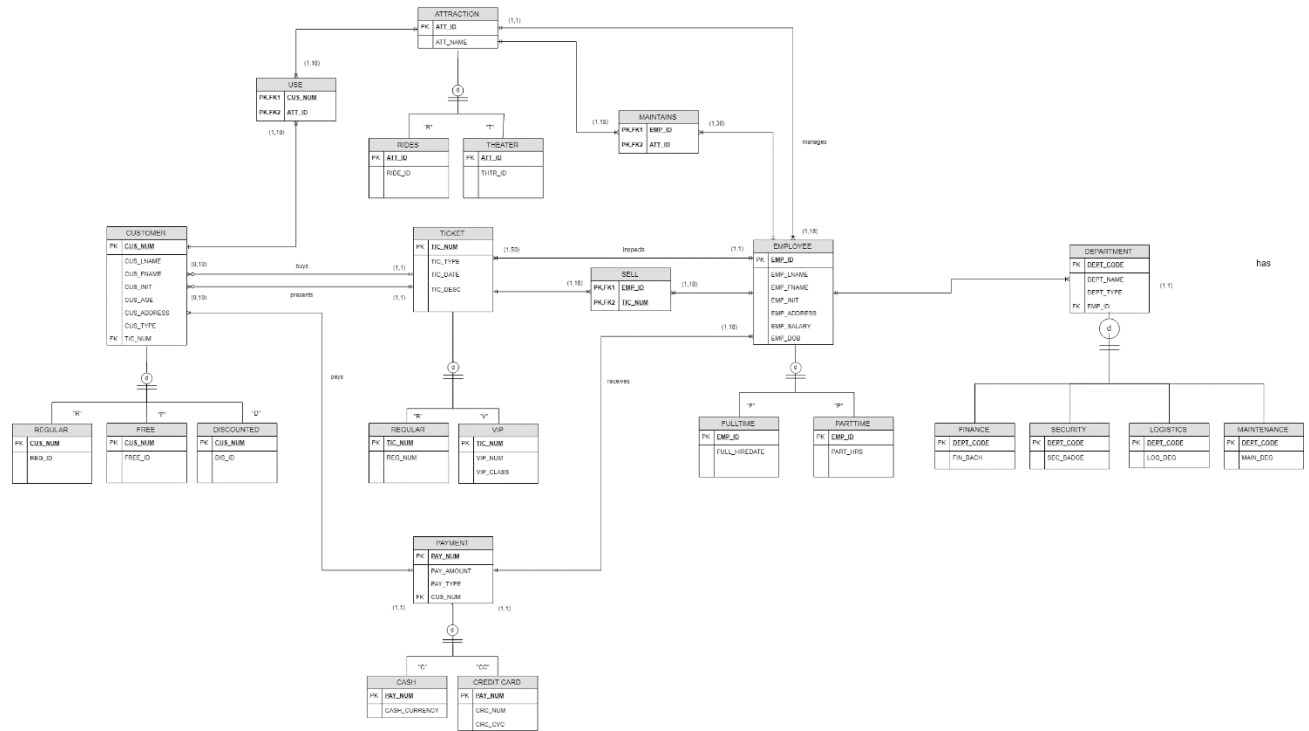
10.   One DEPARTMENT has many EMPLOYEE; many

EMPLOYEE has one DEPARTMENT.

DEPARTMENT

PK	DEPT_CODE
	DEPT_NAME
	DEPT_TYPE
FK	EMP_ID

has   (1,1)   (1,30)

EMPLOYEE

PK	EMP_ID
	EMP_LNAME
	EMP_FNAME
	EMP_INIT
	EMP_ADDRESS
	EMP_SALARY
	EMP_DOB

d

"F"   "S"   "L"   "M"

FINANCE

PK	DEPT_CODE
	FIN_BACH

SECURITY

PK	DEPT_CODE
	SEC_BADGE

LOGISTICS

PK	DEPT_CODE
	LOG_DEG

MAINTENANCE

PK	DEPT_CODE
	MAIN_DEG

d

"F"   "P"

FULLTIME

PK	EMP_ID
	FULL_HIREDATE

PARTTIME

PK	EMP_ID
	PART_HRS

CONCEPTUAL FRAMEWORK

ATTRACTION
PK	ATT_ID
	ATT_NAME

(1,1)

(1,10)

USE
PK,FK1	CUS_NUM
PK,FK2	ATT_ID

(1,10)

RIDES
PK	ATT_ID
	RIDE_ID

"R"

THEATER
PK	ATT_ID
	THTR_ID

"T"

MAINTAINS
PK,FK1	EMP_ID
PK,FK2	ATT_ID

(1,10)   (1,30)

manages

(1,10)

CUSTOMER
PK	CUS_NUM
	CUS_LNAME
	CUS_FNAME
	CUS_INIT
	CUS_AGE
	CUS_ADDRESS
	CUS_TYPE
PK	TIC_NUM

(0,10)   buys   (1,1)

(0,10)   presents   (1,1)

TICKET
PK	TIC_NUM
	TIC_TYPE
	TIC_DATE
	TIC_DESC

(1,50)   impacts

SELL
PK,FK1	EMP_ID
PK,FK2	TIC_NUM

(1,10)   (1,10)

(1,1)

EMPLOYEE
PK	EMP_ID
	EMP_LNAME
	EMP_FNAME
	EMP_INIT
	EMP_ADDRESS
	EMP_SALARY
	EMP_DOB

(1,10)

(1,10)

DEPARTMENT
PK	DEPT_CODE
	DEPT_NAME
	DEPT_TYPE
PK	EMP_ID

has

(1,1)

pays

receives

REGULAR
PK	CUS_NUM
	REG_ID

"R"

FREE
PK	CUS_NUM
	FREE_ID

"F"

DISCOUNTED
PK	CUS_NUM
	DIS_ID

"U"

REGULAR
PK	TIC_NUM
	REG_NUM

"R"

VIP
PK	TIC_NUM
	VIP_NUM
	VIP_CLASS

"V"

FULLTIME
PK	EMP_ID
	FULL_HIREDATE

"F"

PARTTIME
PK	EMP_ID
	PART_HRS

"P"

FINANCE
PK	DEPT_CODE
	FIN_BACH

SECURITY
PK	DEPT_CODE
	SEC_BADGE

LOGISTICS
PK	DEPT_CODE
	LOG_DEG

MAINTENANCE
PK	DEPT_CODE
	MAIN_DEG

PAYMENT
PK	PAY_NUM
	PAY_AMOUNT
	PAY_TYPE
PK	CUS_NUM

(1,1)   (1,1)

CASH
PK	PAY_NUM
	CASH_CURRENCY

"C"

CREDIT CARD
PK	PAY_NUM
	CRC_NUM
	CRC_CVC

"CC"

CHAPTER 3

Data Dictionary

Table Name	Attribute Name	Contents	Type	Format	Range	Required	PK or FK	FK REFERENCE TABLE
CUSTOMER	CUS_NUM	Customer Number	INT	9999	0001-10001	Y	PK	
	CUS_LNAME	Customer Last Name	VARCHAR (100)	Xxxxxxxxxx		Y		
	CUS_FNAME	Customer First Name	VARCHAR (100)	Xxxxxxxxxx		Y		
	CUS_INIT	Customer Initial	VARCHAR (1)	X				
	CUS_AGE	Customer Age	INT	999		Y		
	CUS_ADDRESS	Customer Address	VARCHAR (100)	10001 Xxxxx		Y		
	CUS_TYPE	Customer Type	VARCHAR (100)	Xxxxxxxxxx		Y		
	PAY_NUM	Payment Number	INT	9999999		Y	FK	PAY_NUM
	TIC_NUM	Ticket Number	INT	9999999	0000001-9999999	Y	FK	TIC_NUM
TICKET	TIC_NUM	Ticket Number	INT	9999999	0000001-9999999	Y	PK	
	TIC_TYPE	Ticket Type	VARCHAR (7)	Xxxxxxx		Y		
	TIC_DATE	Ticket Date	DATE	dd-mmm-yyyy		Y		
	TIC_DESC	Ticket Description	VARCHAR (100)	Xxxxxxxxxx				
PAYMENT	PAY_NUM	Payment Number	INT	9999999		Y	PK	
	PAY_AMOUNT	Payment Amount	INT	9999.99	64.00-1999.02	Y		
	PAY_TYPE	Payment Type	VARCHAR (7)	Xxxxxxx		Y		
	EMP_ID	Employee ID	INT					EMP_ID
	CUS_NUM	Customer Number	INT	9999	0001-9999	Y	FK	CUS_NUM
ATTRACTION	ATT_ID	Attraction ID	INT	999	001-999		PK	
	ATT_NAME	Attraction Name	VARCHAR (100)	Xxxxxxxxxx		Y		
	EMP_ID	Employee ID	INT	999-9999				EMP_ID
EMPLOYEE	EMP_ID	Employee ID	INT	999-9999		Y	PK	
	EMP_LNAME	Employee Last Name	VARCHAR (100)	Xxxxxxxxxx		Y		
	EMP_FNAME	Employee First Name	VARCHAR (100)	Xxxxxxxxxx		Y		
	EMP_INIT	Employee Initial	VARCHAR (1)	X		Y		
	EMP_HIREDATE	Employee Hire Date	DATE	dd-mmm-yyyy		Y		
	EMP_ADDRESS	Employee Address	VARCHAR (100)	Xxxxxxxxxx		Y		
	EMP_SALARY	Employee Salary	INT	999,999.99		Y		
	EMP_DOB	Employee Date of Birth	DATE	dd-mmm-yyyy		Y		
DEPARTMENT	DEPT_CODE	Department Code	INT	999		Y	PK	
	DEPT_NAME	Department Name	VARCHAR (100)	Xxxxxxxxxxx		Y		
	DEPT_TYPE	Department Type	VARCHAR (100)	Xxxxxxxxxxx		Y		
	EMP_ID	Employee ID	INT	999-9999		Y	FK	EMP_ID

Commands used

```
MariaDB [starcitydb]> CREATE TABLE ticket(TIC_NUM INT(10) NOT NULL, TIC_TYPE VARCHAR(100) NOT NULL, TIC_DATE DATE NOT NU
LL,TIC_DESC VARCHAR(100) NOT NULL, PRIMARY KEY(TIC_NUM));
Query OK, 0 rows affected (0.04 sec)
```

```
MariaDB [starcitydb]> CREATE TABLE customer(CUS_NUM INT(10) NOT NULL, CUS_LNAME VARCHAR(100) NOT NULL, CUS_FNAME VARCHAR
(100) NOT NULL, CUS_INIT VARCHAR(20), CUS_AGE INT(3) NOT NULL, CUS_ADDRESS VARCHAR(100) NOT NULL, CUS_TYPE VARCHAR(100)
NOT NULL, PRIMARY KEY(CUS_NUM), TIC_NUM INT, FOREIGN KEY(TIC_NUM) REFERENCES ticket(TIC_NUM));
Query OK, 0 rows affected (0.04 sec)
```

```
MariaDB [starcitydb]> CREATE TABLE EMPLOYEE(EMP_ID INT(15) NOT NULL, EMP_LNAME VARCHAR(100) NOT NULL, EMP_FNAME VARCHAR(
100) NOT NULL, EMP_INIT VARCHAR(5), EMP_HIREDATE DATE NOT NULL, EMP_ADDRESS VARCHAR(100) NOT NULL, EMP_SALARY INT(10) NO
T NULL, EMP_DOB DATE NOT NULL, PRIMARY KEY(EMP_ID));
Query OK, 0 rows affected (0.03 sec)
```

```
MariaDB [starcitydb]> CREATE TABLE DEPARTMENT(DEPT_CODE INT(15) NOT NULL, DEPT_NAME VARCHAR(20) NOT NULL, DEPT_TYPE VARC
HAR(20) NOT NULL, EMP_ID INT(15) NOT NULL, PRIMARY KEY(DEPT_CODE), FOREIGN KEY (EMP_ID) REFERENCES EMPLOYEE(EMP_ID));
Query OK, 0 rows affected (0.03 sec)

MariaDB [starcitydb]>
```

```
MariaDB [starcitydb]> CREATE TABLE ATTRACTION(ATT_ID INT(15) NOT NULL, ATT_NAME VARCHAR(100) NOT NULL, EMP_ID INT(15) NO
T NULL, PRIMARY KEY(ATT_ID), FOREIGN KEY(EMP_ID) REFERENCES EMPLOYEE(EMP_ID));
Query OK, 0 rows affected (0.03 sec)
```

```
MariaDB [starcitydb]> CREATE TABLE PAYMENT(PAY_NUM INT(15) NOT NULL, PAY_AMOUNT INT(15) NOT NULL, PAY_TYPE VARCHAR(100)
NOT NULL, EMP_ID INT(15) NOT NULL, CUS_NUM INT(15) NOT NULL, PRIMARY KEY (PAY_NUM), FOREIGN KEY(EMP_ID) REFERENCES EMPLO
YEE(EMP_ID), FOREIGN KEY(CUS_NUM) REFERENCES customer(CUS_NUM));
Query OK, 0 rows affected (0.03 sec)

MariaDB [starcitydb]>
```

Tables with records

Select

```
MariaDB [(none)]> use starcitydb;
Database changed
MariaDB [starcitydb]> select * from customer;
+---------+-----------+-----------+----------+---------+-------------+----------+---------+
| CUS_NUM | CUS_LNAME | CUS_FNAME | CUS_INIT | CUS_AGE | CUS_ADDRESS | CUS_TYPE | TIC_NUM |
+---------+-----------+-----------+----------+---------+-------------+----------+---------+
|       1 | Heramil   | Luigi     | P        |      35 | Taguig City | Regular  |       1 |
|       2 | Chavez    | Michael   | D        |      78 | Pasay City  | Free     |       9 |
|       3 | Ibarra    | Francia   | M        |      15 | Pasig City  | Regular  |       8 |
|       4 | Mendoza   | Kri       | S        |      45 | Pasay City  | Regular  |       5 |
|       5 | Domingo   | Kim       | B        |      35 | Makati City | Regular  |       4 |
+---------+-----------+-----------+----------+---------+-------------+----------+---------+
```

```
MariaDB [starcitydb]> SELECT CUS_TYPE, CUS_NUM FROM customer;
+----------+---------+
| CUS_TYPE | CUS_NUM |
+----------+---------+
| Regular  |       1 |
| Free     |       2 |
| Regular  |       3 |
| Regular  |       4 |
| Regular  |       5 |
+----------+---------+
5 rows in set (0.00 sec)

MariaDB [starcitydb]>
```

```
MariaDB [starcitydb]> SELECT CUS_FNAME, TIC_NUM FROM customer WHERE CUS_NUM = 1;
+-----------+---------+
| CUS_FNAME | TIC_NUM |
+-----------+---------+
| Luigi     |       1 |
+-----------+---------+
1 row in set (0.00 sec)
```

```
MariaDB [starcitydb]> SELECT CUS_NUM, CUS_TYPE FROM customer;
+---------+----------+
| CUS_NUM | CUS_TYPE |
+---------+----------+
|       1 | Regular  |
|       2 | Free     |
|       3 | Regular  |
|       4 | Regular  |
|       5 | Regular  |
+---------+----------+
5 rows in set (0.00 sec)
```

```
MariaDB [starcitydb]> SELECT CUS_NUM, CUS_LNAME, CUS_FNAME, CUS_TYPE, TIC_NUM FROM customer;
+---------+-----------+-----------+----------+---------+
| CUS_NUM | CUS_LNAME | CUS_FNAME | CUS_TYPE | TIC_NUM |
+---------+-----------+-----------+----------+---------+
|       1 | Heramil   | Luigi     | Regular  |       1 |
|       2 | Chavez    | Michael   | Free     |       9 |
|       3 | Ibarra    | Francia   | Regular  |       8 |
|       4 | Mendoza   | Kri       | Regular  |       5 |
|       5 | Domingo   | Kim       | Regular  |       4 |
+---------+-----------+-----------+----------+---------+
5 rows in set (0.00 sec)
```

Customer

Insert

```
MariaDB [starcitydb]> INSERT INTO CUSTOMER(CUS_NUM, CUS_LNAME, CUS_FNAME, CUS_INIT, CUS_AGE, CUS_ADDRESS, TIC_NUM) VALUES (6, "Menez","John", "H", 12, "Pasig City", 5);

Query OK, 1 row affected, 1 warning (0.00 sec)
```

```
MariaDB [starcitydb]> INSERT INTO customer VALUES(7, 'Aquino', 'Yobhel','P', 15, 'Taguig City', 'FREE', 7);
Query OK, 1 row affected (0.01 sec)

MariaDB [starcitydb]> SELECT * FROM CUSTOMER;
+---------+-----------+-----------+----------+---------+-------------+----------+---------+
| CUS_NUM | CUS_LNAME | CUS_FNAME | CUS_INIT | CUS_AGE | CUS_ADDRESS | CUS_TYPE | TIC_NUM |
+---------+-----------+-----------+----------+---------+-------------+----------+---------+
|       1 | Heramil   | Luigi     | P        |      35 | Taguig City | Regular  |       1 |
|       2 | Chavez    | Roel      | D        |      78 | Pasay City  | Free     |       9 |
|       3 | Ibarra    | Francia   | M        |      15 | Pasig City  | Regular  |       8 |
|       4 | Mendoza   | Kri       | S        |      45 | Pasay City  | Regular  |       5 |
|       5 | Domingo   | Kim       | B        |      35 | Makati City | Regular  |       4 |
|       6 | Menez     | John      | H        |      12 | Pasig City  |          |       5 |
|       7 | Aquino    | Yobhel    | P        |      15 | Taguig City | FREE     |       7 |
+---------+-----------+-----------+----------+---------+-------------+----------+---------+
7 rows in set (0.00 sec)
```

```
MariaDB [starcitydb]> INSERT INTO customer(CUS_NUM, CUS_LNAME, CUS_FNAME, CUS_INIT, CUS_AGE, CUS_ADDRESS, CUS_TYPE, TIC_
NUM)VALUES(8,'CHONG','RAUL','S',25,'Taguig City', "Regular", 8),(9,'AHUJA','RAV','W',36,'Marikina City','10% Discount',
9);
Query OK, 2 rows affected (0.01 sec)
Records: 2  Duplicates: 0  Warnings: 0
```

```
MariaDB [starcitydb]> INSERT INTO customer(CUS_NUM, CUS_LNAME, CUS_FNAME, CUS_INIT, CUS_AGE, CUS_ADDRESS, CUS_TYPE, TIC_
NUM)VALUES(10,'Aloha','Barry','C',59,'Antipolo City','Free', 10),(11,'Ketchum','Red','C',60,'Antipolo City','Free', 11);

Query OK, 2 rows affected (0.00 sec)
Records: 2  Duplicates: 0  Warnings: 0
```

```
MariaDB [starcitydb]>  INSERT INTO customer VALUES(12,'Jordan','Michael JR','C',10,'Mandaluyong City', 'Free', 12);
Query OK, 1 row affected (0.00 sec)
```

Update

```
MariaDB [starcitydb]> UPDATE TICKET SET TIC_TYPE = "VIP" WHERE TIC_TYPE ="REGULAR";
Query OK, 5 rows affected (0.01 sec)
Rows matched: 5  Changed: 5  Warnings: 0
```

```
MariaDB [starcitydb]> UPDATE CUSTOMER SET CUS_LNAME = "Katta", CUS_FNAME = "Lakshmi" WHERE CUS_NUM = 3;
Query OK, 1 row affected (0.00 sec)
Rows matched: 1  Changed: 1  Warnings: 0
```

```
MariaDB [starcitydb]> UPDATE CUSTOMER SET CUS_ADDRESS = NULL;
Query OK, 12 rows affected, 12 warnings (0.00 sec)
Rows matched: 12  Changed: 12  Warnings: 12
```

```
MariaDB [starcitydb]> UPDATE CUSTOMER SET CUS_ADDRESS = "Taguig City" WHERE CUS_FNAME = "Luigi";
Query OK, 1 row affected (0.00 sec)
Rows matched: 1  Changed: 1  Warnings: 0
```

```
MariaDB [starcitydb]> UPDATE CUSTOMER SET TIC_NUM = NULL WHERE CUS_NUM ="2";
Query OK, 1 row affected (0.00 sec)
Rows matched: 1  Changed: 1  Warnings: 0
```

DELETE

```
MariaDB [starcitydb]> DELETE FROM CUSTOMER WHERE CUS_NUM IN (1,2);
Query OK, 2 rows affected (0.00 sec)
```

```
MariaDB [starcitydb]> DELETE FROM CUSTOMER WHERE CUS_NUM IN (3,4);
Query OK, 2 rows affected (0.00 sec)
```

```
MariaDB [starcitydb]> DELETE FROM CUSTOMER WHERE CUS_LNAME = "CHONG";
Query OK, 1 row affected (0.01 sec)
```

```
MariaDB [starcitydb]> DELETE FROM CUSTOMER WHERE CUS_TYPE = "FREE";
Query OK, 4 rows affected (0.00 sec)
```

```
MariaDB [starcitydb]> DELETE FROM CUSTOMER;
Query OK, 3 rows affected (0.00 sec)
```

Ticket

Insert

```
MariaDB [starcitydb]> INSERT INTO TICKET (TIC_NUM, TIC_TYPE, TIC_DATE, TIC_DESC) VALUES (12, "REGULAR", "2019-02-01", "c
Choose your ride");
Query OK, 1 row affected (0.00 sec)
```

```
MariaDB [starcitydb]> INSERT INTO ticket(TIC_NUM, TIC_TYPE, TIC_DATE, TIC_DESC)
    -> VALUES
    -> (13,"VIP","2019-01-01","Ride All You Can & Free Food");
Query OK, 1 row affected (0.00 sec)
```

```
MariaDB [starcitydb]> INSERT INTO ticket(TIC_NUM, TIC_TYPE, TIC_DATE, TIC_DESC)
    -> VALUES (14,"VIP","2019-01-01","Ride All You Can & Free Food"),
    -> (15, "Regular", "2019-01-01", "Choose your ride");
Query OK, 2 rows affected (0.00 sec)
Records: 2  Duplicates: 0  Warnings: 0
```

```
MariaDB [starcitydb]> INSERT INTO ticket(TIC_NUM, TIC_TYPE, TIC_DATE, TIC_DESC)
    -> VALUES (16,"VIP","2019-01-01","Ride All You Can & Free Food"),
    -> (17, "Regular", "2019-01-01", "Choose your ride"),
    -> (18, "Regular", "2019-01-01", "Choose your ride");
Query OK, 3 rows affected (0.00 sec)
Records: 3  Duplicates: 0  Warnings: 0
```

```
MariaDB [starcitydb]>  INSERT INTO ticket VALUES(19,"Regular", "2020-01-09", "Choose your Ride");
Query OK, 1 row affected (0.00 sec)
```

Update

```
MariaDB [starcitydb]> UPDATE TICKET SET TIC_TYPE = "VIP" WHERE TIC_NUM = 1;
Query OK, 0 rows affected (0.00 sec)
Rows matched: 1  Changed: 0  Warnings: 0
```

```
MariaDB [starcitydb]> UPDATE TICKET SET TIC_TYPE = "Regular", TIC_DESC = "FREE" WHERE TIC_NUM = 9
Query OK, 1 row affected (0.00 sec)
Rows matched: 1  Changed: 1  Warnings: 0

MariaDB [starcitydb]> UPDATE TICKET SET TIC_DESC = "Ticket Already Expired" WHERE TIC_DATE = "2019-01-01";
Query OK, 15 rows affected (0.00 sec)
Rows matched: 15  Changed: 15  Warnings: 0
```

```
MariaDB [starcitydb]> UPDATE TICKET SET TIC_DATE = "2020-01-09" WHERE TIC_DESC = "Ticket Already Expired";
Query OK, 15 rows affected (0.00 sec)
Rows matched: 15  Changed: 15  Warnings: 0
```

```
Query OK, 1 row affected, 1 warning (0.00 sec)
Rows matched: 1  Changed: 1  Warnings: 1
```

Delete

```
MariaDB [starcitydb]> DELETE FROM TICKET WHERE TIC_NUM IN (1,2,3);
Query OK, 2 rows affected (0.00 sec)
```

```
MariaDB [starcitydb]> DELETE FROM TICKET WHERE TIC_NUM IN (4,5,6);
Query OK, 3 rows affected (0.00 sec)
```

```
MariaDB [starcitydb]> DELETE FROM TICKET WHERE TIC_DATE = "2020-01-09";
Query OK, 11 rows affected (0.01 sec)
```

```
MariaDB [starcitydb]> DELETE FROM TICKET WHERE TIC_TYPE = "REGULAR";
Query OK, 1 row affected (0.00 sec)
```

```
MariaDB [starcitydb]> DELETE FROM TICKET;
Query OK, 1 row affected (0.00 sec)
```

Employee

Insert

```
MariaDB [starcitydb]> INSERT INTO employee(EMP_ID,EMP_LNAME,EMP_FNAME,EMP_INIT,EMP_HIREDATE,EMP_ADDRESS,EMP_SALARY,EMP_D
OB)
    -> VALUES(7, "Bermudo", "Jesus", "M", "2012-04-19", "Taguig", 20000, "1989-01-14");
Query OK, 1 row affected (0.00 sec)
```

```
MariaDB [starcitydb]> INSERT INTO employee(EMP_ID,EMP_LNAME,EMP_FNAME,EMP_INIT,EMP_HIREDATE,EMP_ADDRESS,EMP_SALARY,EMP_D
OB)
    -> VALUES(8, "Jordi", "James", "M", "2012-04-19", "Pasay", 20000, "1989-02-14"),
    -> (9, "Aragon", "Jake", "S", "2012-04-19", "Taguig", 20000, "1989-01-14");
Query OK, 2 rows affected (0.00 sec)
Records: 2  Duplicates: 0  Warnings: 0
```

```
MariaDB [starcitydb]> INSERT INTO employee
    -> VALUES(11, "Walter", "James", "C", "2013-04-19", "Pasay", 40000, "1989-02-14");
Query OK, 1 row affected (0.00 sec)
```

```
MariaDB [starcitydb]> INSERT INTO employee
    -> VALUES(12, "Agustin", "James", "C", "2013-04-19", "Pasay", 40000, "1989-02-14"),
    -> (13, "Camson", "Charm", "C", "2013-04-19", "Taguig", 10000, "1989-11-14");
Query OK, 2 rows affected (0.00 sec)
Records: 2  Duplicates: 0  Warnings: 0
```

```
                                          ... Agoncillo , Martin , C , 2013 04 13 , Pasay , 4000   at line 1
MariaDB [starcitydb]> INSERT INTO employee
    -> VALUES(14, "Agoncillo", "Martin", "C", "2013-04-19", "Pasay", 40000, "1989-02-14"),
    -> (15, "Caridad", "Gema", "C", "2013-04-19", "Taguig", 10000, "1989-11-14");
Query OK, 2 rows affected (0.00 sec)
Records: 2  Duplicates: 0  Warnings: 0
```

Update

```
MariaDB [starcitydb]> UPDATE EMPLOYEE SET EMP_LNAME = "Benito" WHERE EMP_ID = 1;
Query OK, 1 row affected (0.00 sec)
Rows matched: 1  Changed: 1  Warnings: 0
```

```
MariaDB [starcitydb]> UPDATE EMPLOYEE SET EMP_FNAME = "Rafael" WHERE EMP_ID = 2;
Query OK, 1 row affected (0.00 sec)
Rows matched: 1  Changed: 1  Warnings: 0
```

```
MariaDB [starcitydb]> UPDATE EMPLOYEE SET EMP_FNAME = "Rafael", EMP_LNAME = "ELER" WHERE EMP_ID = 11;
Query OK, 1 row affected (0.00 sec)
Rows matched: 1  Changed: 1  Warnings: 0
```

```
MariaDB [starcitydb]> UPDATE EMPLOYEE SET EMP_ADDRESS = "N/A" WHERE EMP_ID = 2;
Query OK, 1 row affected (0.00 sec)
Rows matched: 1  Changed: 1  Warnings: 0
```

```
MariaDB [starcitydb]> UPDATE EMPLOYEE SET EMP_SALARY = 0 WHERE EMP_DOB = "1989-02-14";
Query OK, 4 rows affected (0.01 sec)
Rows matched: 4  Changed: 4  Warnings: 0
```

Delete

```
MariaDB [starcitydb]> DELETE FROM EMPLOYEE WHERE EMP_ID IN (1,2);
Query OK, 2 rows affected (0.00 sec)
```

```
MariaDB [starcitydb]> DELETE FROM EMPLOYEE WHERE EMP_ID IN (3,4);
Query OK, 2 rows affected (0.00 sec)
```

```
MariaDB [starcitydb]> DELETE FROM EMPLOYEE WHERE EMP_LNAME = "CAMSON";
Query OK, 1 row affected (0.00 sec)
```

```
MariaDB [starcitydb]> DELETE FROM EMPLOYEE WHERE EMP_ADDRESS = "PASAY";
Query OK, 4 rows affected (0.00 sec)
```

```
MariaDB [starcitydb]> DELETE FROM EMPLOYEE;
Query OK, 5 rows affected (0.00 sec)
```

Attraction

Insert

```
MariaDB [starcitydb]> INSERT INTO ATTRACTION(ATT_ID, ATT_NAME, EMP_ID) VALUES (1,"ROLLER COASTER",3);
Query OK, 1 row affected (0.00 sec)
```

```
MariaDB [starcitydb]> INSERT INTO ATTRACTION(ATT_ID, ATT_NAME, EMP_ID) VALUES (2,"STAR FLYER",1), (3, "SURF DANCE", 2);
Query OK, 2 rows affected (0.00 sec)
Records: 2  Duplicates: 0  Warnings: 0
```

```
MariaDB [starcitydb]> INSERT INTO ATTRACTION VALUES (4,"JUNGLE SPLASH",1);
Query OK, 1 row affected (0.00 sec)
```

```
MariaDB [starcitydb]> INSERT INTO ATTRACTION VALUES (5,"VIKING", 7), (6, "BLIZZARD", 9);
Query OK, 2 rows affected (0.00 sec)
Records: 2  Duplicates: 0  Warnings: 0
```

```
MariaDB [starcitydb]> INSERT INTO ATTRACTION VALUES (7,"DRAGON EXPRESS", 9), (8, "WILD RIVER", 11);
Query OK, 2 rows affected (0.00 sec)
Records: 2  Duplicates: 0  Warnings: 0
```

Update

```
MariaDB [starcitydb]> UPDATE ATTRACTION SET ATT_NAME = "RAIN FOREST" WHERE ATT_ID = 1;
Query OK, 1 row affected (0.00 sec)
Rows matched: 1  Changed: 1  Warnings: 0
```

```
MariaDB [starcitydb]> UPDATE ATTRACTION SET ATT_NAME = "HARD BUFFALO" WHERE ATT_ID = 2;
Query OK, 1 row affected (0.00 sec)
Rows matched: 1  Changed: 1  Warnings: 0
```

```
MariaDB [starcitydb]> UPDATE ATTRACTION SET ATT_NAME = "FAIRYSWHEEL" WHERE ATT_ID = 3;
Query OK, 1 row affected (0.00 sec)
Rows matched: 1  Changed: 1  Warnings: 0
```

```
MariaDB [starcitydb]> UPDATE ATTRACTION SET ATT_NAME = "NEGATIVE ZERO" WHERE ATT_ID = 4;
Query OK, 1 row affected (0.00 sec)
Rows matched: 1  Changed: 1  Warnings: 0
```

```
MariaDB [starcitydb]> UPDATE ATTRACTION SET ATT_NAME = "MUSIC EXPRESS" WHERE ATT_ID = 5;
Query OK, 1 row affected (0.00 sec)
Rows matched: 1  Changed: 1  Warnings: 0
```

Delete

```
MariaDB [starcitydb]> DELETE FROM ATTRACTION WHERE ATT_ID = 1;
Query OK, 1 row affected (0.00 sec)
```

```
MariaDB [starcitydb]> DELETE FROM ATTRACTION WHERE ATT_ID IN (2,3);
Query OK, 2 rows affected (0.00 sec)
```

```
MariaDB [starcitydb]> DELETE FROM ATTRACTION WHERE ATT_NAME = "WILD RIVER";
Query OK, 1 row affected (0.00 sec)
```

```
MariaDB [starcitydb]> DELETE FROM ATTRACTION WHERE ATT_NAME = "BLIZZARD";
Query OK, 1 row affected (0.00 sec)
```

```
MariaDB [starcitydb]> DELETE FROM ATTRACTION;
Query OK, 3 rows affected (0.00 sec)
```

Department

Insert

```
MariaDB [starcitydb]> INSERT INTO DEPARTMENT(DEPT_CODE, DEPT_TYPE, EMP_ID) VALUES("FINANCE2019", "FINANCE", 1);
Query OK, 1 row affected (0.00 sec)
```

```
MariaDB [starcitydb]> INSERT INTO DEPARTMENT(DEPT_CODE, DEPT_TYPE, EMP_ID) VALUES("FILM2019", "FILMING", 2), ("ACTING201
9", "ACTING",3);
Query OK, 2 rows affected (0.00 sec)
Records: 2  Duplicates: 0  Warnings: 0
```

```
MariaDB [starcitydb]> INSERT INTO DEPARTMENT VALUES ("HIRING2019", "HIRING/RECRUITMENT",4);
Query OK, 1 row affected (0.00 sec)
```

```
MariaDB [starcitydb]> INSERT INTO DEPARTMENT VALUES ("ACROBAT2019", "ACROBATICS",5);
Query OK, 1 row affected (0.00 sec)
```

```
MariaDB [starcitydb]> INSERT INTO DEPARTMENT VALUES ("ADVERTISE2019", "ADVERTISEMENTS",8);
Query OK, 1 row affected (0.00 sec)
```

Update

```
MariaDB [starcitydb]> UPDATE DEPARTMENT SET DEPT_TYPE = "ACROBATICS 2" WHERE EMP_ID = 5;
Query OK, 1 row affected (0.00 sec)
Rows matched: 1  Changed: 1  Warnings: 0
```

```
MariaDB [starcitydb]> UPDATE DEPARTMENT SET DEPT_TYPE = "HIRING STAFF" WHERE EMP_ID = 4;
Query OK, 2 rows affected (0.00 sec)
Rows matched: 2  Changed: 2  Warnings: 0
```

```
MariaDB [starcitydb]> UPDATE DEPARTMENT SET DEPT_TYPE = "LOCAL ADVERTISEMENT" WHERE EMP_ID = 8;
Query OK, 1 row affected (0.00 sec)
Rows matched: 1  Changed: 1  Warnings: 0
```

```
MariaDB [starcitydb]> UPDATE DEPARTMENT SET DEPT_TYPE = "MAN2019" WHERE EMP_ID = 1;
Query OK, 2 rows affected (0.00 sec)
Rows matched: 2  Changed: 2  Warnings: 0
```

```
MariaDB [starcitydb]> UPDATE DEPARTMENT SET DEPT_TYPE = "FINANCIAL2019" WHERE EMP_ID = 1;
Query OK, 2 rows affected (0.00 sec)
Rows matched: 2  Changed: 2  Warnings: 0
```

Delete

```
MariaDB [starcitydb]> DELETE FROM DEPARTMENT WHERE DEPT_CODE = "ACROBAT2019";
Query OK, 1 row affected (0.01 sec)
```

```
MariaDB [starcitydb]> DELETE FROM DEPARTMENT WHERE EMP_ID = 1;
Query OK, 2 rows affected (0.00 sec)
```

```
MariaDB [starcitydb]> DELETE FROM DEPARTMENT WHERE EMP_ID IN (2,3);
Query OK, 3 rows affected (0.00 sec)
```

```
MariaDB [starcitydb]> DELETE FROM DEPARTMENT WHERE EMP_ID = 8;
Query OK, 1 row affected (0.00 sec)
```

```
MariaDB [starcitydb]> DELETE FROM DEPARTMENT WHERE EMP_ID IN (1,2,3,4,5,6,7,8,9,10);
Query OK, 2 rows affected (0.00 sec)
```

Payment

Insert

```
MariaDB [starcitydb]> INSERT INTO PAYMENT VALUES (6, 200, "PAYMAYA", 6, 7);
Query OK, 1 row affected (0.00 sec)
```

```
MariaDB [starcitydb]> INSERT INTO PAYMENT VALUES (8, 300, "CREDIT CARD", 8, 9), (7, 100, "GCASH", 7, 8);
Query OK, 2 rows affected (0.00 sec)
Records: 2  Duplicates: 0  Warnings: 0
```

```
MariaDB [starcitydb]> INSERT INTO PAYMENT VALUES (9, 400, "SMART", 11, 11), (10, 100, "BAYAD CENTER", 9, 10);
Query OK, 2 rows affected (0.00 sec)
Records: 2  Duplicates: 0  Warnings: 0
```

```
MariaDB [starcitydb]> INSERT INTO PAYMENT VALUES (12, 500, "SMART", 12, 12), (13, 9900, "BAYAD CENTER", 13, 1);
Query OK, 2 rows affected (0.00 sec)
Records: 2  Duplicates: 0  Warnings: 0
```

```
MariaDB [starcitydb]> INSERT INTO PAYMENT VALUES (14, 500, "CASH", 1, 1), (15, 900, "CASH", 12, 2);
Query OK, 2 rows affected (0.00 sec)
Records: 2  Duplicates: 0  Warnings: 0
```

Update

```
MariaDB [starcitydb]> UPDATE PAYMENT SET PAY_TYPE = "CASH" WHERE PAY_NUM = 1;
Query OK, 1 row affected (0.00 sec)
Rows matched: 1  Changed: 1  Warnings: 0
```

```
MariaDB [starcitydb]> UPDATE PAYMENT SET PAY_TYPE = "PAYMAYA" WHERE PAY_NUM IN (2,3);
Query OK, 2 rows affected (0.00 sec)
Rows matched: 2  Changed: 2  Warnings: 0
```

```
MariaDB [starcitydb]> UPDATE PAYMENT SET PAY_TYPE = "CASH" WHERE PAY_NUM IN (4,6);
Query OK, 1 row affected (0.00 sec)
Rows matched: 1  Changed: 1  Warnings: 0
```

```
MariaDB [starcitydb]> UPDATE PAYMENT SET PAY_TYPE = "CASH" WHERE PAY_NUM IN (7,9);
Query OK, 2 rows affected (0.00 sec)
Rows matched: 2  Changed: 2  Warnings: 0
```

```
MariaDB [starcitydb]> UPDATE PAYMENT SET PAY_TYPE = "CASH" WHERE PAY_NUM IN (10,11);
Query OK, 2 rows affected (0.00 sec)
Rows matched: 2  Changed: 2  Warnings: 0
```

Delete

```
MariaDB [starcitydb]> DELETE FROM PAYMENT WHERE PAY_NUM = 1;
Query OK, 1 row affected (0.00 sec)
```

```
MariaDB [starcitydb]> DELETE FROM PAYMENT WHERE PAY_NUM IN (2,3);
Query OK, 2 rows affected (0.00 sec)
```

```
MariaDB [starcitydb]> DELETE FROM PAYMENT WHERE EMP_ID = 1;
Query OK, 1 row affected (0.00 sec)
```

```
MariaDB [starcitydb]> DELETE FROM PAYMENT WHERE EMP_ID = 5;
Query OK, 1 row affected (0.00 sec)
```

```
MariaDB [starcitydb]> DELETE FROM PAYMENT WHERE EMP_ID IN (1,2,3,4,5);
Query OK, 1 row affected (0.00 sec)
```

```
MariaDB [starcitydb]> DELETE FROM PAYMENT;
Query OK, 8 rows affected (0.00 sec)
```

Prototype

Star City Buy Ticket Online

| Ticket |
| Payment |
| Checkout |
| Transaction |

Customer Information

Lastname

Firstname

Age

Address

☐ I'm not a robot

SUBMIT

Online registration of customers for online transactions. Values entered in the following text boxes will be saved to its corresponding fields in the database. Age field only accepts numbers.

Star City Buy Ticket Online

| Ticket | Buy Tickets Online | 🛒 0 |

Buy Tickets Online

Regular Ticket

ADD TO CART

Discount

Free for Senior Citizen
10% discount for student

VIP Ticket/Ride all you can

ADD TO CART

Discount

50% discount for Senior Citizen
25% discount for student

Sidebar navigation:
- Ticket
- Payment
- Checkout
- Transaction

Online Ticket buying tab where customers can choose what type of tickets and the amount they would want to add to cart for purchase.

Star City Buy Ticket Online

Ticket	**Payment** 🛒 1
Payment	Regular Ticket
Checkout	PHP 599.00 * 10%
Transaction	Total: 132456

Student ▾

CHECKOUT

Payment tab, customers can select what type of discount they would want. After selecting a discount, It will show how much is the discount and show the discounted price.

Star City Buy Ticket Online

Ticket	
Payment	
Checkout	
Transaction	

Checkout

🛒 1

Regular Ticket

Total: 132456

BUY NOW

Payment Type

○ Credit Card

○ Pay via 7/11

○ Gcash

○ Paymaya

Checkout tab, customers can choose what form of online payment they can use while showing the total price.

Star City Buy Ticket Online

Ticket	**Transaction**
Payment	**Succesfully Bought Ticket**
Checkout	Ticket number: 123456
Transaction	*Regular Ticket*

Present This Picture To The Staff In The Entrance

BACK TO HOME

Transaction tab, it will show if the transaction was done successfully. It will also show the ticket number of the tickets bought by the customer.

Procedures

- provide attractions

- sell tickets

- let customers enjoy

- serve the customers

- maintain the attractions

- secure customers