



**SCHOOL OF
MATHEMATICS SCIENCES AND
INFORMATION TECHNOLOGY**

DATABASE

María Fernanda Molina *

Andrés Riofrío[†]

Lenin Rueda[‡]

Emil Vega[§]

July 14, 2017

*maria.molina@yachaytech.edu.ec

†andres.riofrio@yachaytech.edu.ec

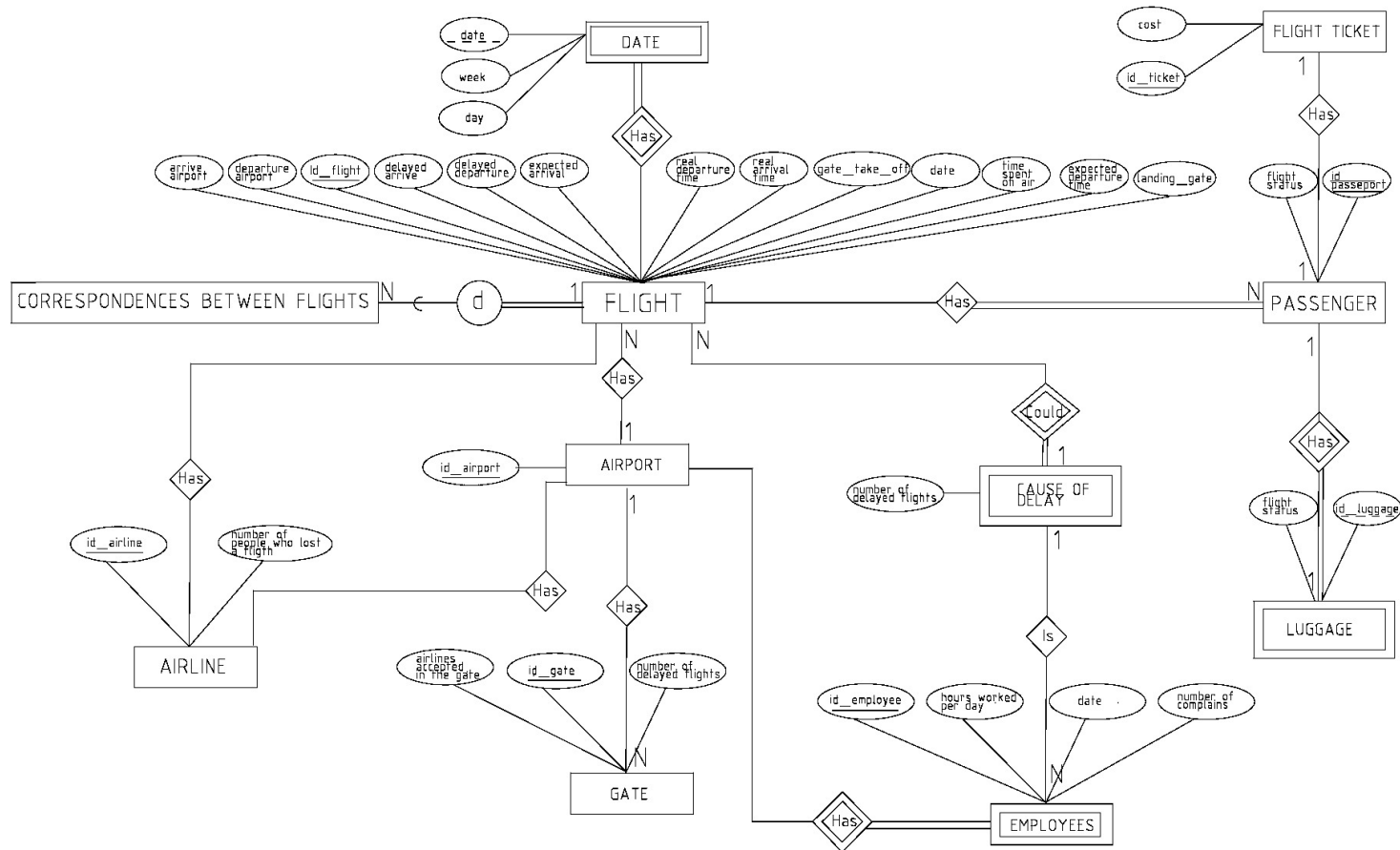
‡lenin.rueda@yachaytech.edu.ec

§emil.vega@yachaytech.edu.ec

DATA DICTIONARY.

ATTRIBUTES, RELATIONS AND ENTITIES	DEFINITION
FLIGHT	Entity which indicates a flight of an airline
arrive airport	Destination airport of the flight
departure airport	Airport where the flight is started
id_flight	Identification per flight
delayed arrival	Identification to know when the flight is delayed to destination
delayed departure	Identification to know when the flight is delayed to go out
expected arrival	Time which the flight should be in the destination airport
expected departure	Time which the flight should leave the airport of start
real departure time	Exact time when the airplane go out.
real arrival time	Exact time when the airplane touched down
landing_gate	time spent in the ground from landing till complete stop
gate_takeoff	time spent in the ground from departure from gate till lift off
date	day, month and year when airplane arrives and leaves the airport
time spent on air	flight time of the plane
PASSENGER	users of TAME that flying in its airplanes
flight status	notification that indicate if the airplane arrive at time
id_passeport	identification document of passenger
FLIGHT TICKET	identification document that indicates the airplane that is assigned at passenger
cost	value of the ticket or value that expend TAME when the passenger lost the airplane by the corresponde between flights
id_ticket	number of the ticket sold to the passenger
LUGGAGE	bag that transport the user in the airplane
id_luggage	identifier of a passenger luggage. It is unique for each luggage.
flight_status	show if a bag has lost it flight transfer
CORRESPONDENCES BETWEEN FLIGHTS	shows if there are flight scales, if there is any.
CAUSE THE DELAY	Entity that shows if an employee was working while a delayed flight arrived or had a relation with the cause of the delay
number of delayed flights	Number of lagged flights caused by an employee during his/her working day
EMPLOYEES	staff member of TAME group flight
id_employee	Unique numeral digit assigned to an employee in order to differentiate each other
hours per day	Number of working hours worked by an employee during his/her working day
date (revisar)	number day of a month related with the number of working hour in a day
complaints	Number of criticism made to an employee by a TAME's client
AIRPORT	Entity that shows the airport where a TAME group flight is located
id_airport	Unique numeral digit assigned to an airport in order to differentiate each other
GATE	Area of an airport that provides a waiting area for passengers of a TAME's flight
id_gate	Identifier of a gate that accepts all the airlines in the TAME's group
number of delayed flights	number of delayed flight that have arrived to that gate
airlines accepted in the gate	Respective airlines of the TAME group with their respective id that are accepted by a certain gate
AIRLINES	Each airline has several flights. In addition each airline is located in different airports
id_airline	The id_airline identifies each airline of unique way
number of people who lost a flight	The persons who lost the flight in each one of the airlines of the TAME group and are identified by the ID of each airline
FLIGHT has PASSENGERS	Each flight has a certain amount of passengers with their respective information and is related to an id
FLIGHT could have correspondences between flights	Each flight has different correspondences and is identified by the id that provides the information of which flight each correspondence belongs.
EMPLOYEES could CAUSE A DELAY IN A FLIGHT	Employees who work at the airport a number of hours and who for some reason have been involved in some delay of a flight
AIRPORT have EMPLOYEES	Each airport has a number of employees who meet a certain hours of work
AIRLINES works in an AIRPORT	Airlines work at an airport and are assigned with an id
TAME is composed by many AIRLINES	The TAME group is formed by different airlines that operate in a certain airport
PASSENGER have LUGGAGE	Passengers have luggage that is identified with an id that shows the information to whom it belongs
PASSENGER have a TICKET	Passengers have a ticket that shows information about their flight

ENTITY RELATIONSHIP DIAGRAM.



TRANSFORMATION OF THE ENTITY-RELATIONSHIP DIAGRAM INTO A SET OF RELATIONS.

