

LAB REPORT

Airlines data

Submitted to :

Saif Mahmud Parvez

Department of CSE

Daffodil International University

Submitted by :

Name : Anas Ahmed ID : 181-15-1714

Name : Zaman Chowdhury ID : 181-15-1788

Name : Hassan Imam ID : 181-15-2027

Section : PC-F

Department of CSE

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Introduction:

We thought of making an unique DataBase Management System project. So we thought of using airlience as our ~~as~~ work thought. An airlience has enough ~~at~~ data that we can work on.

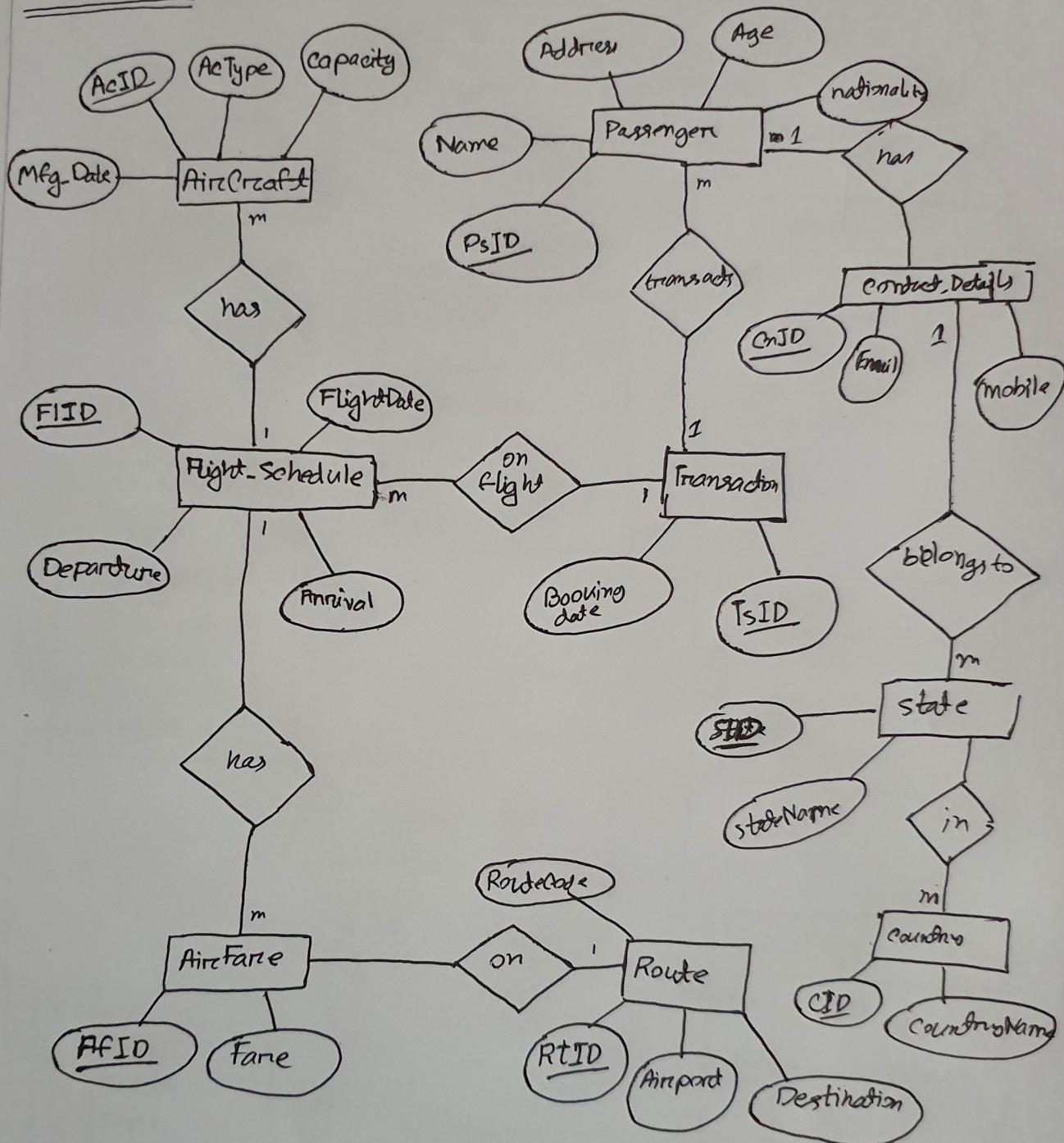
We searched in google to find information for our project.

In an airlience there are different aircraft, passengers, and different Location. We collected all the attributes and made ~~as~~ a demo project as "Airlience data".

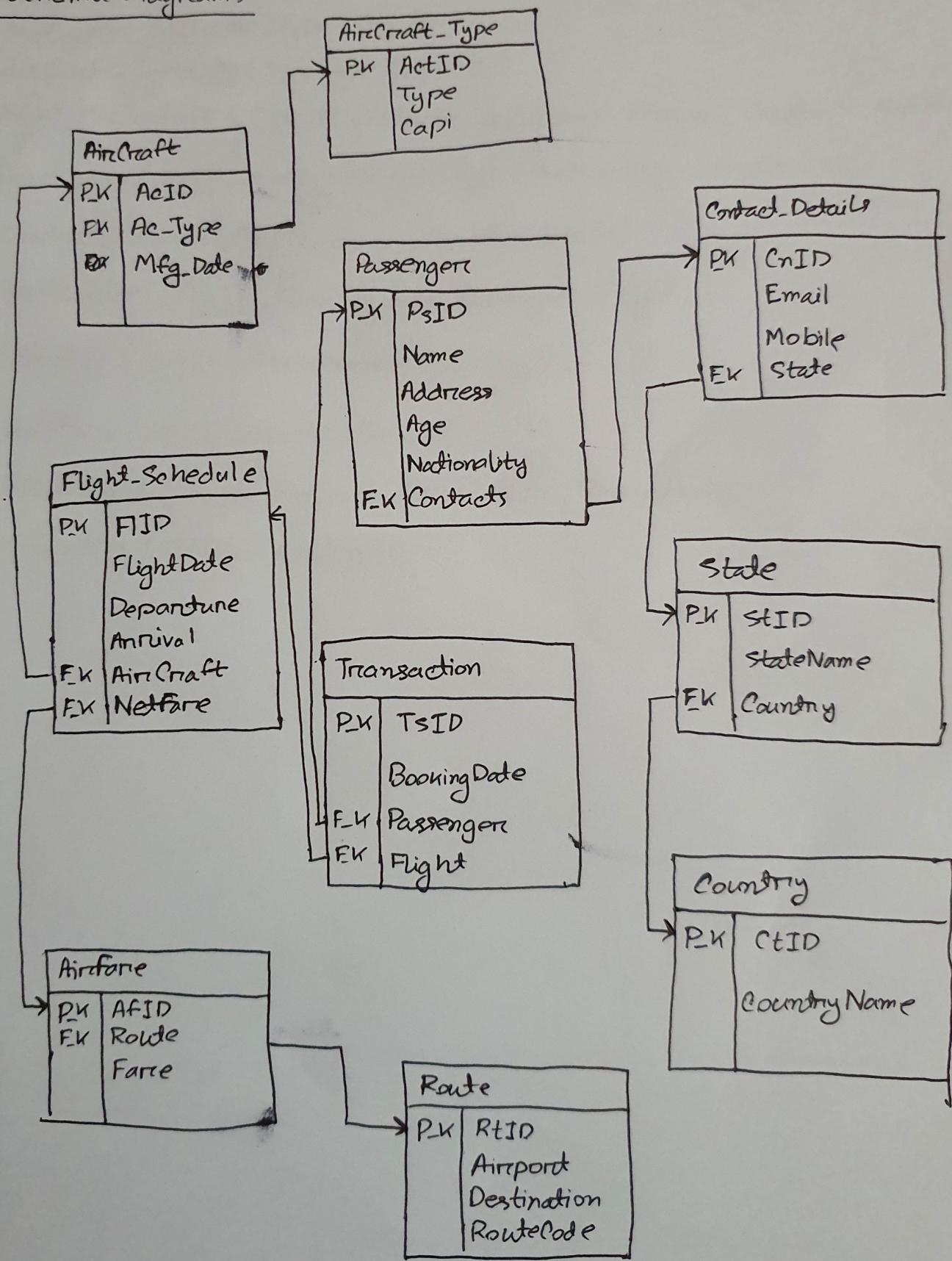
Description: In the project we collected ~~that~~ all the information of a airlience. Here we created 10 tables to collecte all the information and inserted 5 values as demo.

Challenge: Due to "covid-19" (corona virus) there is a big gap in ~~as~~ our project. Because of communication issue. But we tried our best to make a perfect project and a lab report.

ER diagram:



Schema Diagram:



Schema Diagram 8

AirCraft (AcID, Ac-Type, Mfg- Date)

AirCraft-Type (AcT ID, Type, Capacity)

Flight-Schedule (FID, FlightDate, Departure, Arrival, Aircraft, NetFare)

Passenger (PsID, Name, Address, Age, Nationality, contacts)

Contact-Details (CnID, Email, Mobile, State)

Transaction (TsID, BookingDate, Passenger, Flight)

State (StID, StateName, Country)

Airfare (AFID, Route, Fare)

~~Route~~ Route (RtID, Airport, Destination, RouteCode)

Country (ClID, CountryName)

Few sql commands:

1. To see the table names

select * from tab;

2. To select the country names;

select countryname from country;

3. To see country ~~and~~ 'Bangladesh' ID

select countryname, id ctid

from country

where countryname = 'Bangladesh';

4. To select state for a country:

select statename

from state where countryname in

(select countryname

from country

where countryname = "India");

5. Search by ID:

select countryname

where ctID = "101";

7

6. information of Route:

Select Airport, Destination, Routecode
from Route;

7. information of flight & Schedule:

Select flightdate, departure, arrival, Netfare
from Flight_Schedule;

8. Transaction info:

Select bookingdate, passenger, flight
from transaction;

9. Inserting value in State:

insert into State values (111, 'Dhaka', 101);

10. Inserting value in Passenger:

insert into ~~Passenger~~ Passenger values (171, 'Anush', 'Savani', 22, 'Bangladesh',
151);

11. Inserting value in Routes:

insert into Route values (555, 'Shahjalal', 'India', 'Zzz');

13. Total fare collected from date "25-NOV-19" to "20-APR-20"

Select sum (Fare)

From Transaction INNER JOIN flight-schedule on (flight = fID)

Inner join airfare on (netfare = afid)

Where Date (bookingDate) Between '25-NOV-19' AND '20-APR-20'

14. Creating a table called Passenger:

Create Table Passenger

(

PsID INT NOT NULL,

Name varchar (25) NOT NULL,

Address varchar (25) NOT NULL,

Age INT NOT NULL,

Contacts INT NOT NULL,

Primary key (PsID),

Foreign key (contacts) References contact_details (mID)

on delete cascade

);

9

15. table of Aircraft-type

create table aircraft-type

(

ACID INT NOT NULL,

Type varchar(25) NOT NULL,

Capacity INT NULL,

primary key (ACID)

)

16. find the RouteCode whose destination ~~is~~ is 'India' and Airport is 'Shahjalal'

select routeCode

from Route

where destination = 'Shahjalal' and

where Airport = 'Shahjalal' and

destination = 'India'.

17) Find the ~~manufacture~~ date of a aircraft.

select mfg_date

from aircraft

where ac-type = acID (select acID

from Aircraft-Type.

where ~~type~~ = 'First Class');

18. List all the flights in database from airport 'Shahjalal' to 'IndianAir'

Select FID, flightDate, fare, Departure, Arrival
 From ((Flight-Schedule inner join airfare
 on (Flight-Schedule.NetFare = Airfare.AFID)))
 inner join Route on (Route=RTID)

where Airport = 'Shahjalal' and ~~Route~~ = 'IndiamAir'.

destination = 'IndiamAir';

19. List all the passengers for flight no. '511'

Select name, age, mobile

from transaction ~~in~~ inner join passenger on
 (Transaction.Passenger = PsID)

inner join Contact-Details on (ContactID = PsID)

where flight = 511

~~order by~~ ordered by name;

20. Insert value in Transaction:

insert into Transaction values (511, '20-NOV-19', 171, 111);