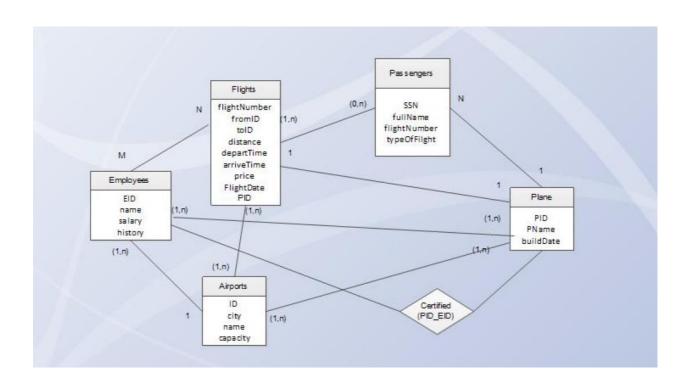
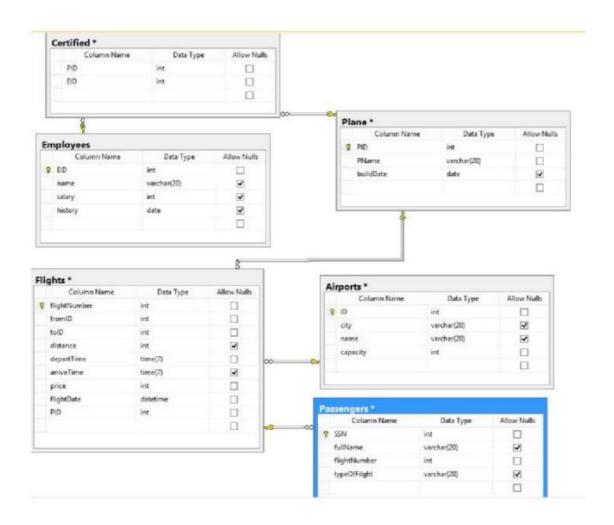
Airport Tables Schema

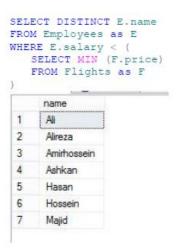
Flights	flightNinghau form to simout
Filghts	flightNumber, from, to, airport
	distance, departTime,
	arriveTime, price
Plane	PID, PName, buildDate,
	certifiedEID
Employees	EID, name, salary, history,
	certifiedPID, airport
Passengers	SSN, fullName, flightNumber,
	flightTime, source, destination,
	airport, typeOfFilght
	an port, typeon light

flightNumber, fromID, toID, distance, departTime, arriveTime, price, flightDate, PID	Flights
PID, PName, buildDate	Plane
PID, EID	Certified
EID, name, salary, history	Employees
SSN, fullName, flightNumber, typeOfFilght	Passengers
ID, city, name, capacity	Airports





1) Return name of all pilots who their salaries are less than cheapest flight's ticket



2) Difference between average of pilots salaries and staff.

```
SELECT p1.Pavg - p2.Eavg

FROM (

SELECT AVG(E.salary) as Pavg
FROM Employees as E
WHERE E.eid IN (
SELECT DISTINCT C.eid
FROM Certified as C
)
) as p1

(
SELECT AVG(Em.salary) as Eavg
FROM Employees as Em
) as p2

(No column name)

1 23394
```

3) Top 3 pilots who have been traveled the most. (in Mileage)

4) Airplanes with most number of flights

5) Pilots who only have flyed Boeing airplanes.

```
SELECT E.EID, E.name
FROM Employees as E, Certified as C, Plane as P
WHERE E.EID=C.EID
AND C.PID=P.PID
AND P.PName='Boeing'

EID name
1 2002 Mohamad
2 2002 Mohamad
3 2005 Naser
4 2004 Pezhman
```

6) Flights from New York to the airports with more than average capacity.

```
SELECT f.flightNumber
FROM Flights as F
WHERE F.fromID=13
AND F.toID=(SELECT A.ID
FROM Airports as A
WHERE A.capacity > (
SELECT AVG(A.capacity)
From Airports as A
)

flightNumber
1 4005
2 4006
3 4007
```

7) Total number of passengers who have been flight from Isfahan to Tehran in 2011

```
SELECT COUNT(p.ssn)
FROM Passengers as P, Flights as F
where p.flightNumber=f.flightNumber
AND Year(f.flightDate) = 2011
AND f.toID=3000 --tehran
AND f.fromID=3001 --isfahan
```

8) Pilots with flights that had more than \$800 worth of each ticket.

```
with numbers as (SELECT count (*) as co, E.EID, e.name
FROM Flights as f, Employees as E, Certified as C
WHERE f.price>800
   AND e.EID=C.EID
   AND f.PID=c.PID
group by E.EID, e.name
SELECT max (n.co), n.EID, n.name
from numbers as n
group by n.EID, n.name
     (No column name)
                    EID
                         name
     4
                    2000 Ali
 1
 2
     4
                     2001 Hossein
 3
     5
                     2002 Mohamad
     2
 4
                     2003 Naghi
 5
     4
                     2004 Pezhman
 6
     9
                     2005 Naser
```

9) Number of flights that had a specific passenger with a specific airplane.

```
select count (P.flightnumber), p.fullName, pl.PName
from Passengers as P join Flights as F
on P.flightnumber = F.flightnumber
join plane as Pl on pl.pid = f.pid
group by fullname, pname (NO COLUMN name) TUNINAME
                                        rivame
 1
                         Al Zdg
                                         Airbus
 2
      1
                         Alhedi
                                         Airbus
 3
      1
                         Ali dfhZahedi
                                         Airbus
 4
                         Ali ere Zahedi
                                         Airbus
 5
      1
                         Ali fghdhedi
                                         Airbus
                         Ali fhedi
 6
      1
                                         Airbus
 7
       1
                         Ali ghk Zahedi
                                         Airbus
 8
                         Ali sdasaheduki Airbus
 9
      1
                         Ali tiZahedi
                                         Airbus
 10
      1
                         Ali Zafgjhedi
                                         Airbus
 11
      3
                         Ali Zahedi
                                        Airbus
                         Ali 7shedietis
 17
                                      Airhue
```

10) Flight with the most speed

11) Pilots with the most experience

12) Passengers who have flown more than 2 times with a specific pilot.

```
with mywith as (
    SELECT count(*) as co, p.fullName, e.name
    FROM Passengers as p, Flights as f, Certified as C, Employees as E
    WHERE C.EID=e.EID
        AND P.flightNumber=f.flightNumber
        AND f.PID=C.PID
        group by p.fullName, e.name)

SELECT m.co, m.fullName, m.name
FROM mywith as m
WHERE m.co>2

    co fullName name

1    3    Al Zahedi    Naser
```

13) Salaries of pilots who have had flights from Tehran to other cities with more than 400KM of Radius

```
SELECT e.salary
FROM Employees as E, Certified as C, Flights as F
WHERE E.EID=C.EID
AND f.PID=C.PID
AND f.toID=11 --tehran
AND f.distance>400
salary
1 65000
2 65000
3 65000
4 50000
```

14) Passengers who have flown only once from Isfahan to Tehran

```
select tmp.fullname
from (
    select p.fullname, count(p.flightNumber) as co
    from Passengers as p join flights as f on p.flightnumber=f.flightnumber
    where f.fromid =3001 and f.toid =3000
    group by p.fullname) as tmp
WHere tmp.co=1
```

```
fullname

1 Ali Zahertudi
```

15) Flights that have cheaper "First Class" tickets than flight from Tehran to Shiraz