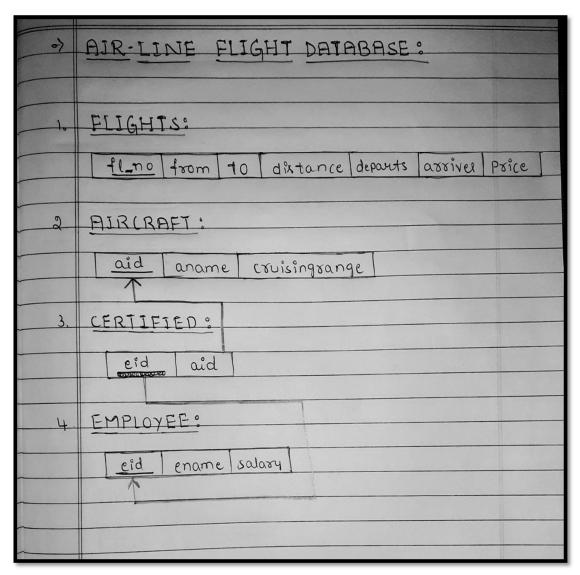
SCHEMA:



FLIGHT Table:

```
MariaDB [airline] desc flight;

Field Type Null Key Default Extra

fl_no int(11) NO PRI NULL

f_from varchar(40) YES NULL

f_to varchar(40) YES NULL

distance int(11) YES NULL

departs time YES NULL

arrives time YES NULL

price int(11) YES NULL

7 rows in set (0.004 sec)
```

FLIGHT Table VALUES:

f1_no	f_from	f_to	distance	departs	arrives	price
102 103 104 105	Delȟi Mumbai Delhi Mumbai	Gulbarga Bangalore Lucknow Ahmedabad Bangalore frankfurt	1250 654 450 680	11:10:00 05:55:00	12:50:00 06:50:00 01:50:00 03:30:00	2580 4532 3278 4555 3580 5805

AIRCRAFT Table:

aid	MariaDB [airline +		•	Ke u	Default	Extra
To a trade and a series of the	taid aid aname	int(11) varchar(40)	NO YES	PRI	NULL NULL	

AIRCRAFT Table VALUES:

MariaDI	[airline]>	select * from aircraft;
aid	aname	cruisinrange
202 203 204	HAL Tejas Boeing Airbus Cirrus Learjet	1580 2356
5 rows	in set (0.00	++ ∂1 sec>

EMPLOYEE Table:

EMPLOYEE Table VALUES:

CERTIFIED Table:

CERTIFIED Table VALUES:

QUERIES:

1. Find the names of Aircraft such that all pilots certified to operate them have salaries more than Rs. 80000

```
select aname from aircraft
where aid in(select c.aid
from certified c,employee e
where c.eid = e.eid and
not exists(select *
from employee e1 where
e1.eid = e.eid and e1.salary<80000));</pre>
```

2. For each pilot who is certified for more than three aircrafts, find the eid and the maximum cruising range of the aircraft for which she or he is certified.

```
select c.eid,max(a.cruisinrange)
from certified c, aircraft a
where c.aid = a.aid
group by c.eid having count(*)>=3;
```

3. Find the names of pilots whose salary is less than the price of the cheapest route from Bengaluru to Frankfurt.

```
select E.ename from employee E
where salary < (select min(F.price)
from flight F where F.f_from = 'Bangalore' and F.f_to = 'frankfurt');</pre>
```

4. For all aircraft with cruising range over 1000 Kms, find the name of the aircraft and the average salary of all pilots certified for this aircraft.

```
select A.aname,avg(E.salary)
from aircraft A,employee E,certified C
where A.cruisinrange>=1000 and
A.aid = C.aid and E.eid = C.eid
group by A.aid,A.aname;
```

5. Find the names of pilots certified for some Boeing aircraft.

```
select E.ename
from employee E,certified C,aircraft A
where A.aname = 'Boeing' and A.aid = C.aid and E.eid = C.eid;
```