

# Week-8

Creating tables and inserting values

```
create database Airline;  
use Airline;
```

```
create table flights(  
flno int, ffrom varchar(50), tto varchar(50), distance int, departs time, arrives time, price int,  
primary key(flno));
```

```
create table aircraft(  
aid int, aname varchar(50), cruisingrange int,  
primary key(aid));
```

```
create table certified(  
eid int, aid int,  
foreign key(aid) references aircraft(aid)  
on update cascade on delete cascade,  
foreign key(eid) references employee(eid)  
on update cascade on delete cascade);
```

```
create table employee(  
eid int, ename varchar(50), salary int,  
primary key(eid));
```

```
insert into employee  
values(101,'Avinash',50000),(102,'Lokesh',60000),(103,'Rakesh',70000),(104,'Santhosh',82000)  
,  
(105,'Tilak',5000);
```

```
insert into aircraft values(1,'Airbus',2000),(2,'Boeing',700),(3,'JetAirways',550),(4,'Indigo',5000),  
(5,'Boeing',4500),(6,'Airbus',2200);
```

```
insert into certified  
values(101,2),(101,4),(101,5),(101,6),(102,1),(102,3),(102,5),(103,2),(103,3),(103,5),(103,6),(10  
4,6),(104,1),(104,3),  
(105,3);
```

```
insert into flights values  
(1,'Banglore','New Delhi',500,'6:00','9:00',5000),  
(2,'Banglore','Chennai',300,'7:00','8:30',3000),  
(3,'Trivandrum','New Delhi',800,'8:00','11:30',6000),
```

```
(4,'Banglore','Frankfurt',10000,'6:00','23:30',50000),
(5,'Kolkata','New Delhi',2400,'11:00','3:30',9000),
(6,'Banglore','Frankfurt',8000,'9:00','23:00',40000);
```

i. Find the names of aircraft such that all pilots certified to operate them have salaries more than Rs.80,000.

```
select a.aname from aircraft a
where a.aid in(select c.aid from certified c
               where c.eid in(select e.eid from employee e
                              where salary>80000));
```

	aname
▶	Airbus
	JetAirways
	Airbus

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

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

Result Grid			Filter Rows:	Export:	Wrap Cell Content
	eid	max(a.cruisingrange)			
▶	102	4500			
	104	2200			
	101	5000			
	103	4500			

Result 17 x

iii. Find the names of pilots whose salary is less than the price of the cheapest route from



	ename
▶	Avinash
	Lokesh
	Rakesh

vi. Find the aids of all aircraft that can be used on routes from Bengaluru to New Delhi.

```
select a.aid from aircraft a
where a.cruisingrange>(select distance from flights
                        where ffrom='Bangalore' and tto='New Delhi');
```

	aid
▶	1
	2
	3
	4
	5
	6
*	NULL