FLIGHT DATABASE WEEK 8

INPUT:

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create database Airline;
use Airline;
create table Flights(
FLno int primary key,
Ffrom varchar(50),
Tto varchar(50),
Distance int,
Departs time,
Arrives time,
Price int);
create table Aircraft(
Aid int primary key,
Aname varchar(50),
Cruising_range int);
create table Employee(
Eid int primary key,
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Ename varchar(50),
Salary int);
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);
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),
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(3,'JetAirways',550),

- (4,'Indigo',5000),
- (5,'Boeing',4500),
- (6,'Airbus',2200);

insert into Certified values

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);

QUERIES:

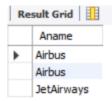
1) Find the names of aircraft such that all pilots certified to operate them have salaries more than Rs.80,000.

INPUT:

select A.Aname from Aircraft A,Certified C,Employee E where A.Aid=C.Aid and C.Eid=E.Eid and not existS(select *from Employee E1

where E1.Eid=E.Eid and E1.salary<80000);

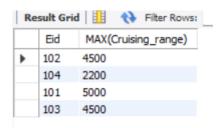
OUTPUT:



2) 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.

INPUT:

select C.Eid,MAX(Cruising_range) from Certified C,Aircraft A where C.Aid=A.Aid group by C.Eid having COUNT(*)>2; OUTPUT:



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

INPUT:

select distinctE.Ename from Employee E
where E.salary <(select MIN(f.price) from Flights F
where F.Ffrom='Banglore' and F.Tto='Frankfurt');

OUTPUT:



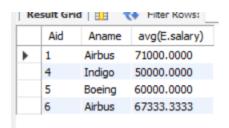
4) For all aircraft with cruising range over 1000 Kms, find the name of the aircraft and the Average salary of all pilots certified for this aircraft.

INPUT:

select A.Aid, A.Aname,avg(E.salary) from Aircraft A, Employee E, Certified C

where A.Aid=C.Aid and C.Eid=E.Eid and A.Cruising_range>1000 group by A.Aid, A.Aname;

OUTPUT:



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

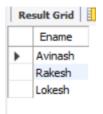
INPUT:

select distinct E.Ename

from Employee E, Aircraft A, Certified C

where E.Eid=C.Eid and C.Aid=A.Aid and A.Aname='Boeing';

OUTPUT:



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

INPUT:

select A.Aid from Aircraft A

where A.Cruising_range>(select MIN(F.Distance) from Flights F where F.Ffrom='Banglore' and F.Tto='New Delhi');

OUTPUT:



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