Airline

a. Find the names of aircraft such that all pilots certified to operate them earn

more than $80,000.

Answer : -

airline=# select employees.eid,ename,aircraft.aid,aname,salary from employees inner join certified on certified.eid = employees.eid inner join aircraft on aircraft.aid = certified.aid where employees.salary > 80000;

eid | ename | aid | aname | salary

-----+------------+-----+---------------+------------

412 | jhon | 441 | redcross fly | 90000

741 | raja singh | 441 | redcross fly | 110152.025

671 | chirs jhon | 526 | dark moon fly | 90152.025

(3 rows)

b. For each pilot who is certified for more than three aircraft, find the eid and the

maximum cruisingrange of the aircraft for which she or he is certified.

Answer : -

airline=# select eid,max(cruisingrange),count(eid) from certified inner join aircraft on aircraft.aid = certified.aid group by eid having count(eid)>3;

eid | max | count

-----+-------+-------

115 | 10000 | 4

221 | 10000 | 4

(2 rows)

c. Find the names of pilots whose salary is less than the price of the cheapest

route from Los Angeles to Honolulu.

Answer :-

airline=# select ename,salary from flights inner join employees on employees.salary < price where price = (select min(price) from flights);

ename | salary

----------+--------

jack ham | 700

mic t | 1150

(2 rows)

d. For all aircraft with cruisingrange over 1000 miles, find the name of the

aircraft and the average salary of all pilots certified for this aircraft.

Answer : -

airline=# select aircraft.aid,aname,cruisingrange,certified.eid,avg(salary) from aircraft inner join certified on certified.aid = aircraft.aid inner join employees on employees.eid=certified.eid where cruisingrange >1000 group by aircraft.aid,certified.eid;

aid | aname | cruisingrange | eid | avg

-----+---------------+---------------+-----+-----------------------

362 | skyblue fly | 5000 | 221 | 1500.0000000000000000

526 | dark moon fly | 10000 | 671 | 90152.025000000000

263 | wine fly | 3000 | 362 | 5000.0000000000000000

526 | dark moon fly | 10000 | 221 | 1500.0000000000000000

263 | wine fly | 3000 | 221 | 1500.0000000000000000

526 | dark moon fly | 10000 | 115 | 700.0000000000000000

362 | skyblue fly | 5000 | 115 | 700.0000000000000000

263 | wine fly | 3000 | 115 | 700.0000000000000000

(8 rows)

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

Answer : -

airline=# select aircraft.aid,aname,cruisingrange,certified.eid,ename from aircraft inner join certified on certified.aid = aircraft.aid inner join employees on employees.eid=certified.eid where aname='Boeing aircraft';

aid | aname | cruisingrange | eid | ename

-----+-----------------+---------------+-----+-----------

263 | Boeing aircraft | 3000 | 115 | jack ham

263 | Boeing aircraft | 3000 | 362 | nicky zoo

263 | Boeing aircraft | 3000 | 221 | domd kick

(3 rows)

f. Find the aids of all aircraft that can be used on routes from Los Angeles to

Chicago.

Answer : -