

CS232L - DATABASE MANAGEMENT SYSTEMS LAB
DATA SCIENCE
Lab 05

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Task1:

Dane country Airport officials decided that all the information related to the airline flight should be organized using a DBMS, and you are hired to design the database. Your first task is to organize the information about all the airplanes stationed and maintained at the airport.

The following relations keep track of airline flight information:

- **Flights** (flno, from_loc, to_loc, distance, price). //details about all the flights
- **Aircraft** (aid, aname, cruisingrange). //details of the aircraft including the registration number assigned, model of the craft and the maximum capacity of the craft in terms of distance it can travel.
- **Certified** (eid, aid) //Certification details of the pilots for specific crafts.
- **Employees** (eid, ename, salary) //details of employees .

Flight					Aircraft		
FLIGHT_NO	FROM_LOC	TO_LOC	DISTANCE	PRICE	AID	ANAME	CRUISINGRANGE
222	Perth	London	9000	50000	111	AD Scout	1000
333	Auckland	Dubai	7000	40000	112	Airco	15000
444	Dallas	Sydney	10000	52000	113	Avis	9000
555	LA	Singapore	11000	55000	114	Bernard	8000
666	UK	Atlanta	15000	60000	115	Comte	20000

Employee			certified	
EID	ENAME	SALARY	EID	AID
100	Oliver	85000	100	114
101	Jack	50000	102	113
102	Thomas	89000	105	112
103	George	10000	106	115
105	James	90000	107	111
106	Daneil	100000	109	112
107	Noah	50000		
108	Joe	25000		
109	Pheebbs	90000		
110	Ross	5000		

Part A:

1. Display **employee id** along with the name of the aircraft for which he is certified for.
2. Modify above to display **employee names** too.
3. Display **name of employee** who is certified for the aircraft with the **highest of cruising range**.
4. Modify above and show his **salary** too.
5. Display **name** of the suitable air craft for the flight from LA (based upon the distance and cruising range of craft).