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Week: 7

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Revision on SQL DDL, DML, STRINGS, AGGREGATE, JOINS & FUNCTIONS

The following relations keep track of airline flight information:

Flights (FID:integer, from: string, To String, distance: integer, departs: time, arrives: time, price: real)

Aircraft (AID: Integer, aname: string, cruisingrange: integer)

Certified (EID:integer,aid:integer)

Employees (EID:intger, ename: string, salary:integer)

Note that the employee relation describes pilots and other kinds of employees as well; every pilot is certified for some aircraft, and only pilots are certified to fly.

Write each of the following queries in SQL

1. Find the names of aircraft such that all pilots certified to operate them to have salaries more than 80, 000.
2. Find the AIDs of all aircraft that can be used on routes from India to UK
3. Compute the difference between the average salary of pilot and average salary of employees(including pilots)
4. Print the name and salary of every non-pilot whose salary is more than the average salary of pilots
5. For all aircraft with cruise range over 1000 miles, find the name of the aircraft and the average salary of all pilots certified for that aircraft
6. Create a view to store the details of each pilot who is certified for more than three aircraft with a maximum cruiserange of the aircraft that he or she is certified for
7. Sort the records in flight relation by ascending order of departure time and Aircraft relation by Aircraft name.
8. Show the details of the cheapest flight and the costliest flight
9. Save your records permanently as in when needed and display the database.
10. Using built-in string function, replace all the aircraft names to a single name display the same, and save it as a temporary update.

11. Using the appropriate TCL command display the relation which was updated before Question 11.
12. Display the details of employees with Aircraft ID, Aircraft Name, employee ID using join operation.
13. Find the average salary of all employees of a particular aircraft.
14. Show a list of all employees paired with every flight.
15. Find the employees and their assigned aircraft for flights that have a distance greater than 500 miles.
16. Find the total price of flights for each aircraft, and display the aircraft's name, the total price of the flights, and the aircraft's cruising range.
17. Retrieve a list of employees, the aircraft they are certified to operate, and the details of the flights they are certified to handle, including the flight number, departure time, and price.