

An EER Diagram for a small private airport database.

Design the EER diagram for a small private airport database that is used to keep track of airplanes, their owners, airport employees and pilots. From the requirements for this database, the following information was collected.

- Each airplane has a registration number, is of a particular plane type, and is stored in a particular hangar that has a specific number, capacity and location.
- Each plane type has a model number, a capacity and a location.
- The database also keeps track of the owners of each plane and the employees who have maintained the plane.
- We keep track of the purchase date of the airplane (the date that the owner purchased the airplane).
- Each plane undergoes service many times. A service record includes the date of maintenance, the number of hours spent on the work and the type of work done.
- An owner of the airplane is either a person or a corporation.
- Each pilot has specific license number and restrictions.
- Each employee has specific salary and shift worked.
- All person entities in the database have data kept on their social security number, name, address, and telephone number.
- For corporation entities, the data kept includes name, address, and telephone number.
- The database also keeps track of the types of planes each pilot is authorized to fly and the types of planes each employee can do maintenance work on.