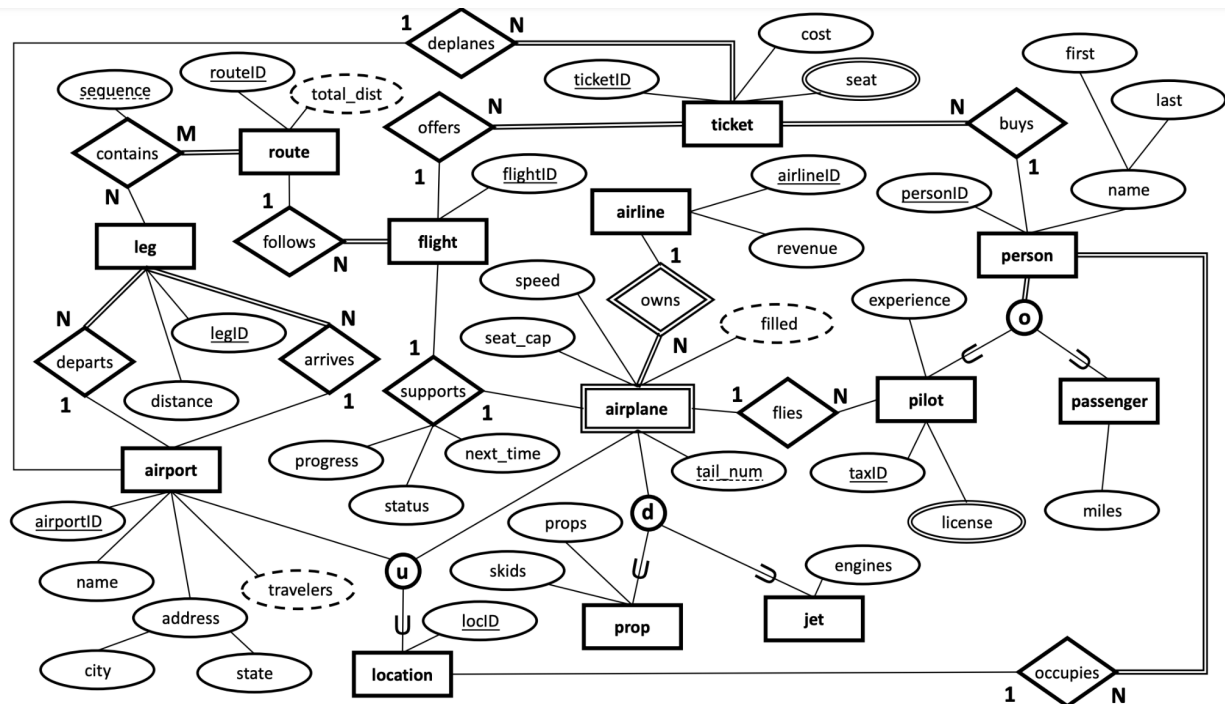# EERD:

Relational Schema:

Entities:

Airline = (<u>airlineID</u>, revenue)

Location = (<u>locID)</u>

Airport = (<u>airportID,</u> airport_name, airport_city, airport_state, locationID [fk_2])

Airplane = (<u>airlineID</u> [fk_1], <u>tail_num</u>, seat_capacity, speed , locationID [fk_3], plane_type, skids,props_or_jets)

Person = (<u>personId,</u> first_name, last_name, locationID[fk_7], tax_id, experience,fliesAirline[fk_12], fliesTailNo[fk_13],miles)

PilotLicenses = (person [fk_6], license_name)

Leg = (<u>legID,</u> distance, departs_from [fk_4],arrives_at [fk_5])

Route = (<u>routeID</u>)

Flight = (<u>flightID</u>, route[fk_8], supportingAirline[fk_14],supportingPlane [fk_15] progress,current_status, nextTime)

Ticket = (<u>ticketID</u>, cost, carrier[fk_10], customer[fk_9], deplanes[fk_11])

Ticketseat = (ticketID [fk_16], t_seat<u>)</u>

routecontains = (routeID[fk_18],legID[fk_17],<u>sequence</u>)

Fk_1: airplane.airlineID -> airline (airlineID)

Fk_2: airport.locationID -> location(locID)

Fk_3: airplane.locationID-> location(locID)
Fk_4: leg.departs_from ->airport(airportID)
Fk_5 : leg.arrives_at -> airport(airportID)
Fk_6: pilotLicenses.person -> person(personID)
Fk_7: person.locationID -> location(locID)
Fk_8: flight.route -> route(routeID)
Fk_9: ticket.customer -> person(personID)
Fk_10: ticket.carrier -> flight(FlightID)
Fk_11: ticket.deplanes -> airport(AirportID)
Fk_12: pilot.fliesTailNo -> airplane(tail_num)
Fk_13: pilot.fliesAirline -> airplane(airlineID)
Fk_14: flight.supportingPlane -> airplane(tail_num)
Fk_15: flight.supportingAirline -> airplane(airlineID)
Fk_16: ticketseat.ticketID -> ticket (ticketID)
Fk_17: contains.legID -> leg(legID)
Fk_18: contains.routeID -> route(routeID)