

Airport Management System

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ER Diagram Description:

The following ER diagram depicts the database for an airport management system. In this diagram, entity types are written in a rectangular box and their attributes are encircled. The relationships between these entity types are shown in a diamond shape. For participation constrain, Mandatory participation is shown by double lines whereas optional is shown by a single line. Key attributes of entity types are underlined.

In this ER diagram entity types such as passenger, flight, baggage& cargo, airline, runway, and gate data, etc. are included.

Entity type passenger and flight are connected by a relationship "Travels_in" with cardinality many to one. All other entity types are connected in the same manner.

Tickets purchased by a passenger should have details about their class and price. The ticket entity type has two key attributes which are seat_no and flight_no.

If some passenger's item is seized by the security, it is recorded by the "Got_seized" relationship. The cardinality of this relationship is one to many.

If a passenger has any inquiry, then it is recorded in the "Inquiry" entity type and identified by a relationship called "Inquires", with cardinality one to many. These inquiries are solved by the Airport Department entity type.

Before any arrival or departure of a flight, runway, and gate availability along with weather should be checked.

Flights of a particular airline are required to arrive/depart only from the allocated gates of an airport. For which entity types are connected with the "Allocated" relationship. Similarly, gates are allocated to the vendors in the airport to set up their shops.

Flight details such as aircraft type and owner airlines have been captured in this diagram.

