Ex. No: 5   **ER DIAGRAM FOR AIRPORT MANAGEMENT SYSTEM**
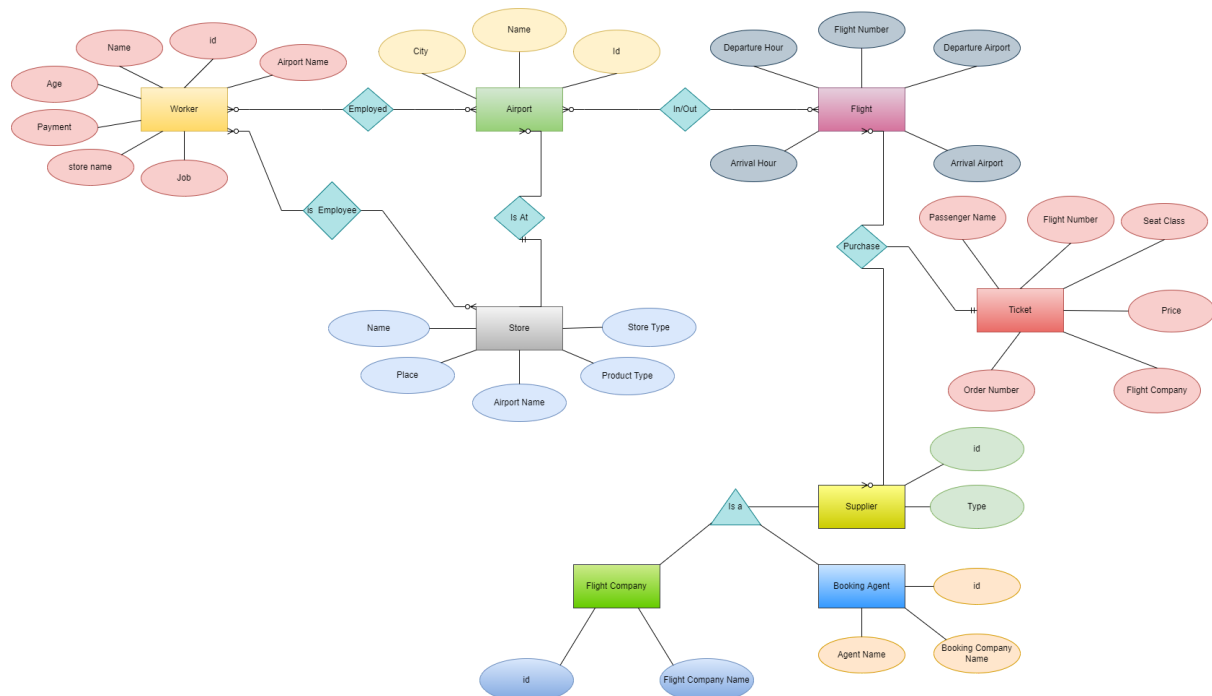
Date: 15-02-2022   **- RA1911003010761**

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AIM:

To create basic tables, with primary, foreign key relationships and show the E-R Diagram for the Airport Management System.

ENTITY RELATIONSHIP (E-R) DIAGRAM:

TABLES & CONSTRAINTS:

   1. TABLE – Worker:

ATTRIBUTE	DESCRIPTION	DATA TYPE	CONSTRAINT
id	unique id of staff	int(20)	Primary Key

name	worker name	varchar(25)	NOT NULL
age	worker age	int(5)	NOT NULL
payment	Payment method	varchar(25)	NOT NULL
Store name	Name of the store	varchar(35)	Foreign Key
job	Workers's Job	varchar(35)	NOT NULL
Airport Name	Name of the Airport	varchar(35)	NOT NULL

2. TABLE – Airport:

ATTRIBUTE	DESCRIPTION	DATA TYPE	CONSTRAINT
id	unique id of Airport	int(20)	Primary Key (and FK)
Name	Name of the Airport	varchar(35)	Primary Key (and FK)
City	Name of city	varchar(35)	NOT NULL

3. TABLE – Flight:

ATTRIBUTE	DESCRIPTION	DATA TYPE	CONSTRAINT
Flight number	Unique flight number	varchar(35)	Primary Key (and FK)
Departure Airport	Name of the Airport	varchar(35)	Foreign Key
Arrival Airport	Name of Airport	varchar(35)	Foreign Key
Departure hour	Departing time	date	NOT NULL

Arrival hour	Arriving time	date	NOT NULL

4. TABLE – Ticket:

ATTRIBUTE	DESCRIPTION	DATA TYPE	CONSTRAINT
Seat class	Class of seat	varchar(35)	NOT NULL
Passenger Name	Name of the Passenger	varchar(35)	NOT NULL
Flight number	Name of city	varchar(35)	Foreign Key
price	price	int(20)	NOT NULL
Flight company	Flight company	varchar(35)	Foreign Key
Order number	Order number	int(20)	Primary Key (and FK)

5. TABLE – Supplier:

ATTRIBUTE	DESCRIPTION	DATA TYPE	CONSTRAINT
id	Id of the supplier	int(20)	Primary Key (and FK)
type	Type of supplier	varchar(35)	NOT NULL

6. TABLE – Booking Agent:

ATTRIBUTE	DESCRIPTION	DATA TYPE	CONSTRAINT
id	Id of the booking agent	int(20)	Primary Key (and FK)
Booking company name	Name of the company	varchar(35)	NOT NULL
Agent name	Name of the agent	varchar(35)	NOT NULL

7. TABLE – Flight Company:

ATTRIBUTE	DESCRIPTION	DATA TYPE	CONSTRAINT
id	Id of the supplier	int(20)	Primary Key (and FK)
Flight company name	name of company	varchar(35)	Foreign Key

8. TABLE – Store:

ATTRIBUTE	DESCRIPTION	DATA TYPE	CONSTRAINT
name	Name of the store	varchar(35)	Primary Key (and FK)
Store type	Type of store	varchar(35)	NOT NULL
Product type	Type of product	varchar(35)	NOT NULL
Airport Name	Name of Airport	varchar(35)	Foreign Key
Place	Name of place	varchar(35)	NOT NULL

RESULT: Thus, the basic tables, with primary, foreign key relationships are created and the E-R Diagram for the Airport Management System has been displayed.