



**B.TECH. (CSE)**

**V SEMESTER**

**UE19CS301 – DATABASE MANAGEMENT SYSTEM**

**ASSIGNMENT2**

**TEAM NO: 13**

**TOPIC: AIRLINE RESERVATION SYSTEM**

**SUBMITTED BY**

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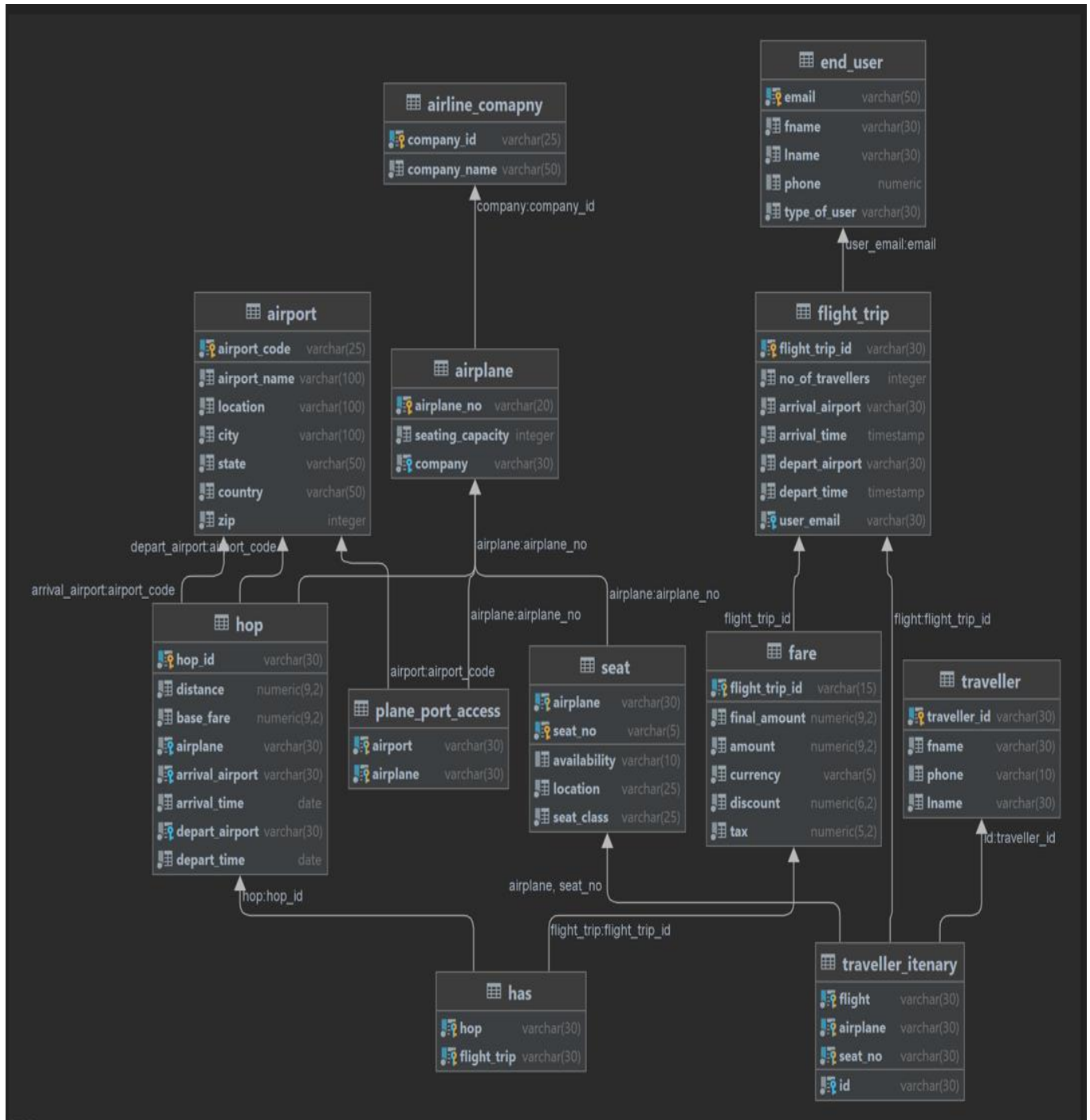
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**DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING**

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## MAPPING OF ER DIAGRAM TO RELATIONSHIP MODEL



## **JUSTIFICATION FOR THE CHOICE OF DBMS**

We have chosen RDBMS for the following reasons:

1. Our data has proper database schema
2. Our data can be well represented using rows and columns (structured data)
3. Our data has well defined constraints like key integrity (primary key), referential key (foreign key) and other constraints like not null, unique etc.
4. Can provide authorization access for various sql commands.
5. RDBMS provide ACID property resulting in good balance between durability and performance.

Our choice for RDBMS software was PostgreSQL because

1. It provides better concurrency control
2. It provides data integrity at transaction level
3. It is an open driven and community driven software
4. It is highly extensible and provides advanced data types (geometric/GIS, network address types, JSONB which can be indexed, native UUID, time zone-aware timestamps)
5. It is ORDBMS i.e. it serves as a bridge between object-oriented programming and relational/procedural programming
6. PostgreSQL stores much more information in its catalogs: not only information about tables and columns, but also information about data types, functions, access methods, and so on

## **INSTALLATION LINK FOR POSTGRESQL:**

<https://www.postgresql.org/download/windows/>

## **CONTRIBUTION**

<b>TOPIC</b>	<b>CONTRIBUTION BY</b>	<b>TIME TAKEN</b>
ER TO RELATIONAL MAPPING	SAI JAYANTH IMMADISETTY(PES2UG19CS152) AMIT JITTA(PES2UG19CS169)	1 HOUR
JUSTIFICATION ON CHOICE OF DBMS	AMIT JITTA(PES2UG19CS169)	30 MINUTES
CREATING TABLES	KUNTAL GORAI(PES2UG19CS198)	1 HOUR
INSERTING TABLES	KUNTAL GORAI(PES2UG19CS198)	4 HOUR