**Airport Management System**

**Suppose you are hired to design the ER diagram for particular airport management system. Here are the listed information-**

The airport has its own unique id, name and is situated in a certain location. There are many employees working under the airport’s department. Each of them has their own individual id, name and salary. The department also has its own unique department id and name. The airport has incoming and outgoing flights. Every flight has its schedule and owns distinctive flight number.



NORMALIZATION:

Works( A\_id,A\_name,A\_loc,E\_id,E\_name,E\_sal)

1NF: there is no multivalued attribute.

2NF: A\_id,A\_name,A\_loc

E\_id,E\_name,E\_sal

3NF: there is no transitive dependency.

Table for Works:

01. A\_id,A\_name,A\_loc

02. E\_id,E\_name,E\_sal,A\_id(Foreign key)

in/out(A\_id,A\_name,A\_loc,F\_no,F\_schedule)

1NF: there is no multivalued attribute.

2NF: A\_id,A\_name,A\_loc

F\_no,F\_schedule

3nf:There is no transitive dependency.

Table for in/out: 01. A\_id,A\_name,A\_loc

02. F\_no,F\_schedule,A\_id(foreign key)

Works-on(E\_name,E\_id,E\_Sal,D\_no,D\_name)

1NF: There is no multivalued attribute.

2NF: E\_name,E\_id,E\_Sal

D\_no,D\_name

3NF: There is no transitive dependency.

Table for Workson:  
01.E\_name,E\_id,E\_Sal,D\_no(Foreign key)

02.D\_no,D\_name

Final table list

* .A\_id,A\_name,A\_loc { Airport}
* E\_id,E\_name,E\_sal,A\_id(Foreign key) { Employee}

03. F\_no,F\_schedule,A\_id(foreign key) {Flight}

04. E\_id,E\_name,E\_sal,D\_no(foreign key) {Data}

05. D\_no,D\_name {Department}

{screenshot desc and select }



















**Answer all of the Questions**

* Write a query that displays all the information about the table Airport and employee*.* **table**
* Write a query that displays the name and salary of the employee in an alphabetic order.
* Write a query to find out the sum of the salaries of employees.
* Write a query that shows the employees information such as “202 Smith earns 2100 as salary”.
* Find the names of those employees whose salary is more than 2500.
* Find the name of that particular airport that starts with letter D.
* find the e\_name whose salary between 2000-2500 $