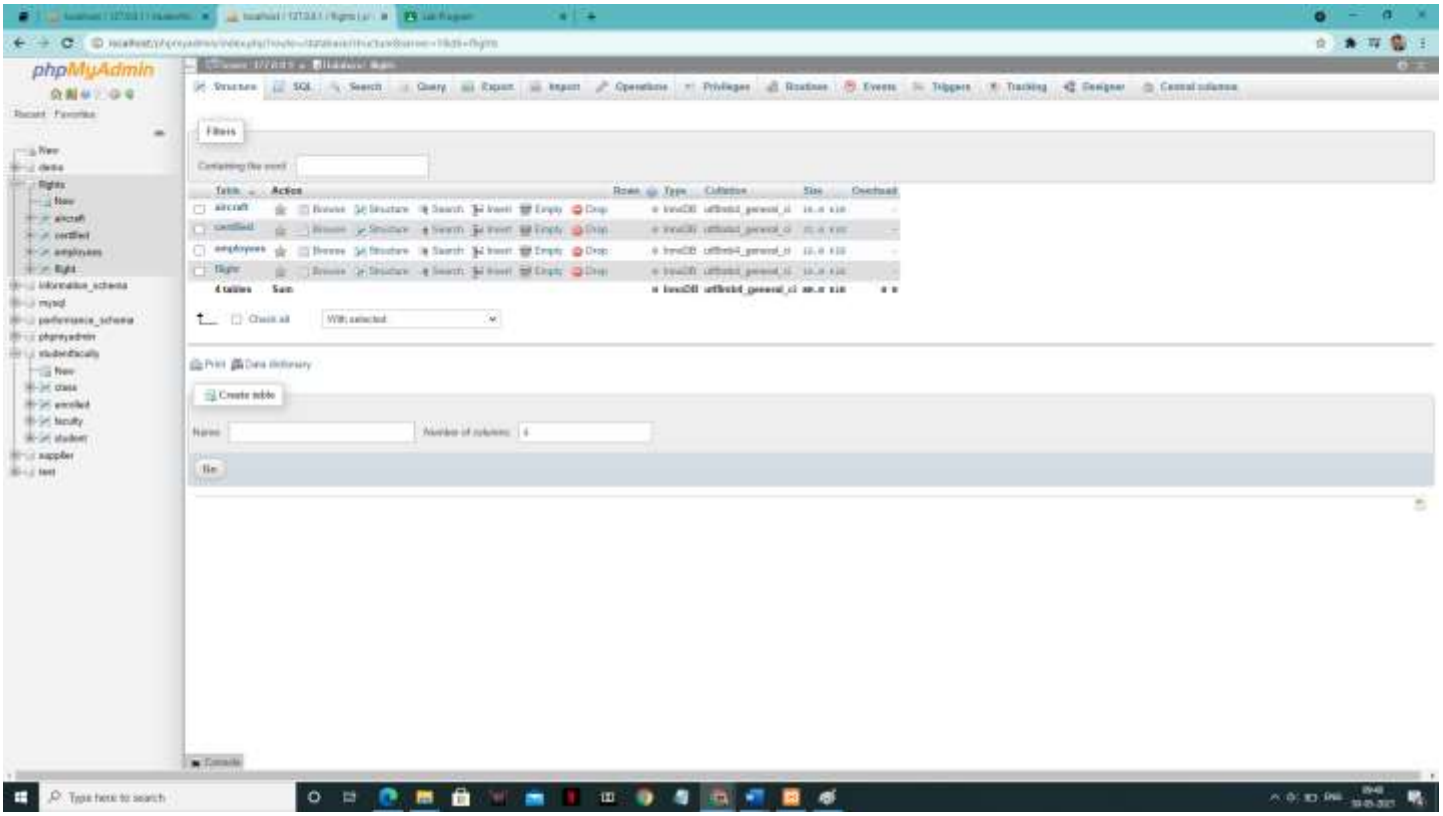
LAB-5 (program)

PROGRAM 5: AIRLINE FLIGHTS DATABASE

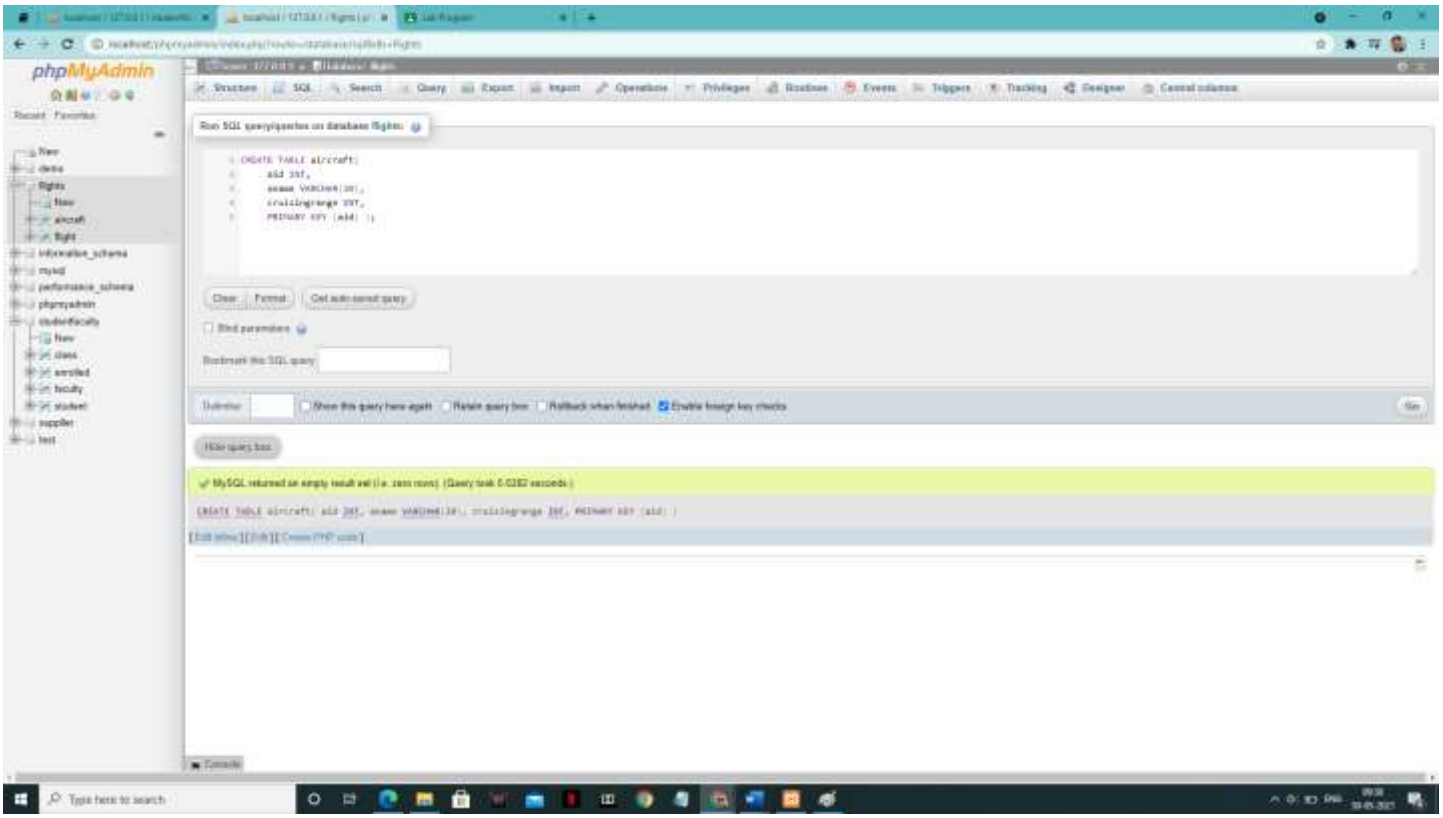
Consider the following database that keeps track of airline flight information:
FLIGHTS (flno: integer, from: string, to: string, distance: integer, departs: time, arrives: time, price: integer)
AIRCRAFT (aid: integer, aname: string, cruisingrange: integer)
CERTIFIED (eid: integer, aid: integer)
EMPLOYEE (eid: integer, ename: string, salary: integer)
Note that the Employees relation describes pilots and other kinds of employees as well; Every pilot is certified
for some aircraft, and only pilots are certified to fly.
Write each of the following queries in SQL.
i. Find the names of aircraft such that all pilots certified to operate them have salaries more than Rs.80,000.
ii. For each pilot who is certified for more than three aircrafts, find the eid and the maximum cruising range of
the aircraft for which she or he is certified.
iii. Find the names of pilots whose salary is less than the price of the cheapest route from Bengaluru to
Frankfurt.
iv. For all aircraft with cruising range over 1000 Kms, find the name of the aircraft and the average salary of
all pilots certified for this aircraft.
v. Find the names of pilots certified for some Boeing aircraft.
vi. Find the aids of all aircraft that can be used on routes from Bengaluru to New Delhi.
vii. A customer wants to travel from Madison to New York with no more than two changes of flight. List the
choice of departure times from Madison if the customer wants to arrive in New York by 6 p.m.
viii. Print the name and salary of every non-pilot whose salary is more than the average salary for pilots.

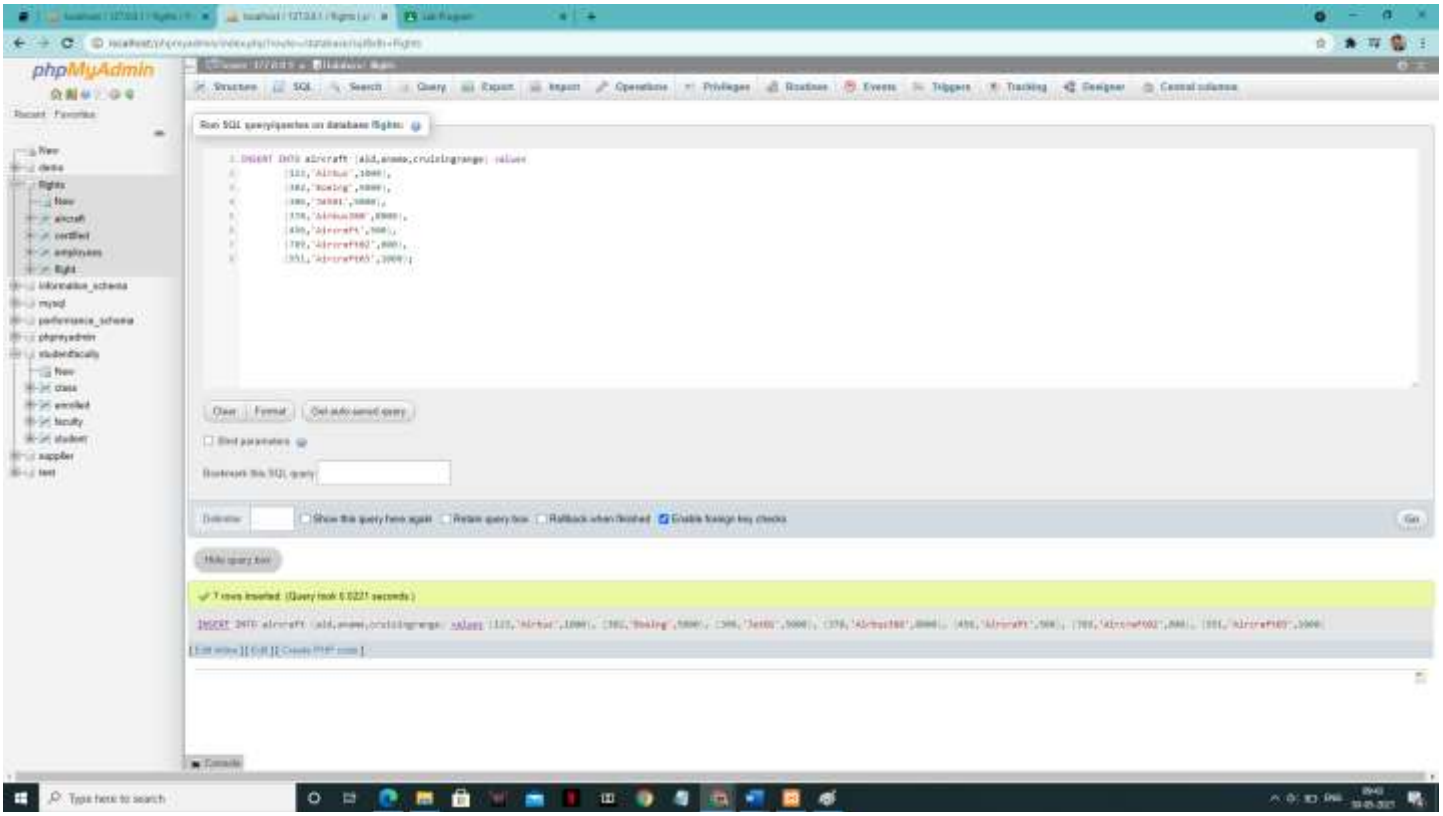
Create table:-



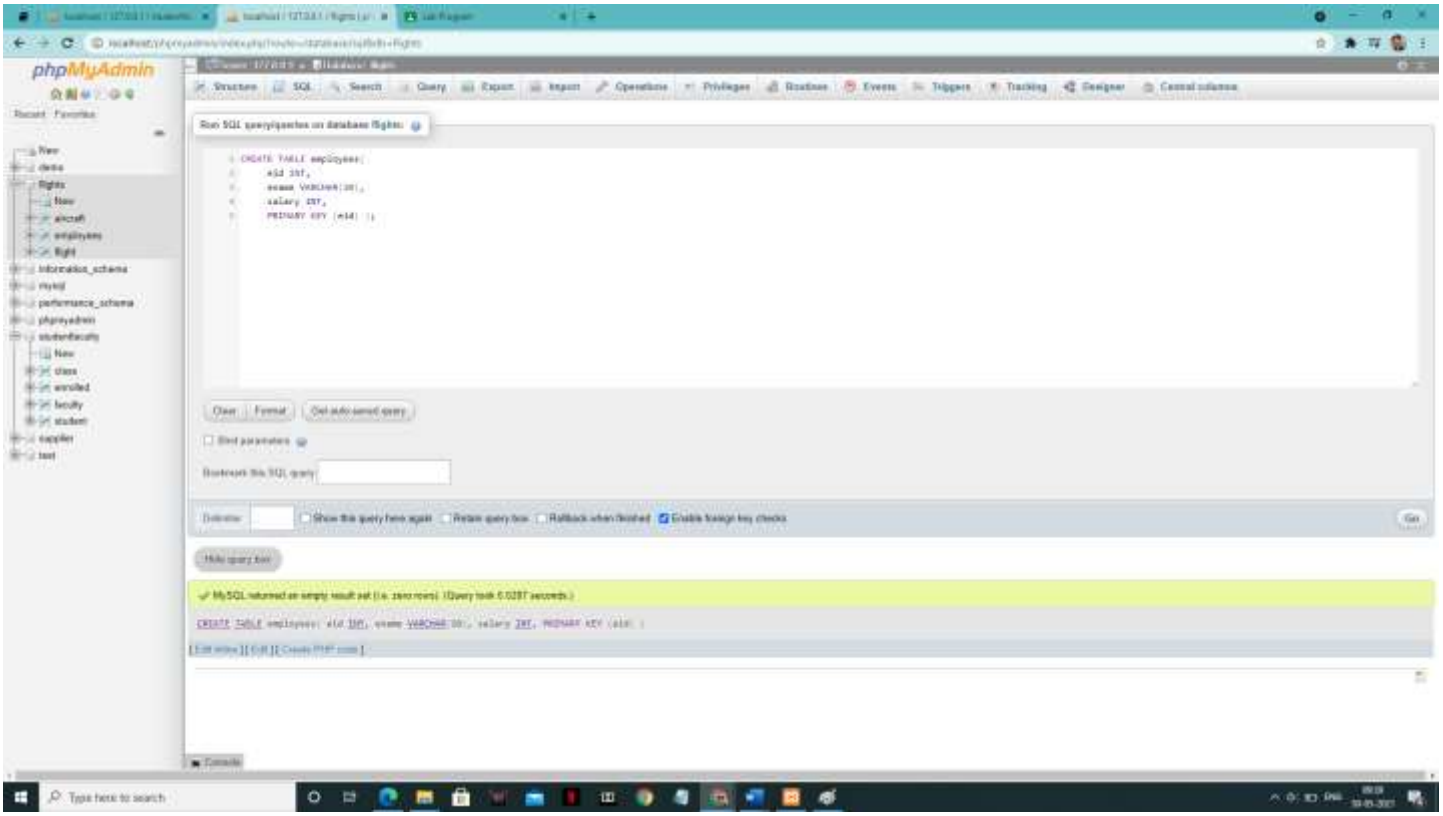
2) Enter tuples for each relation.

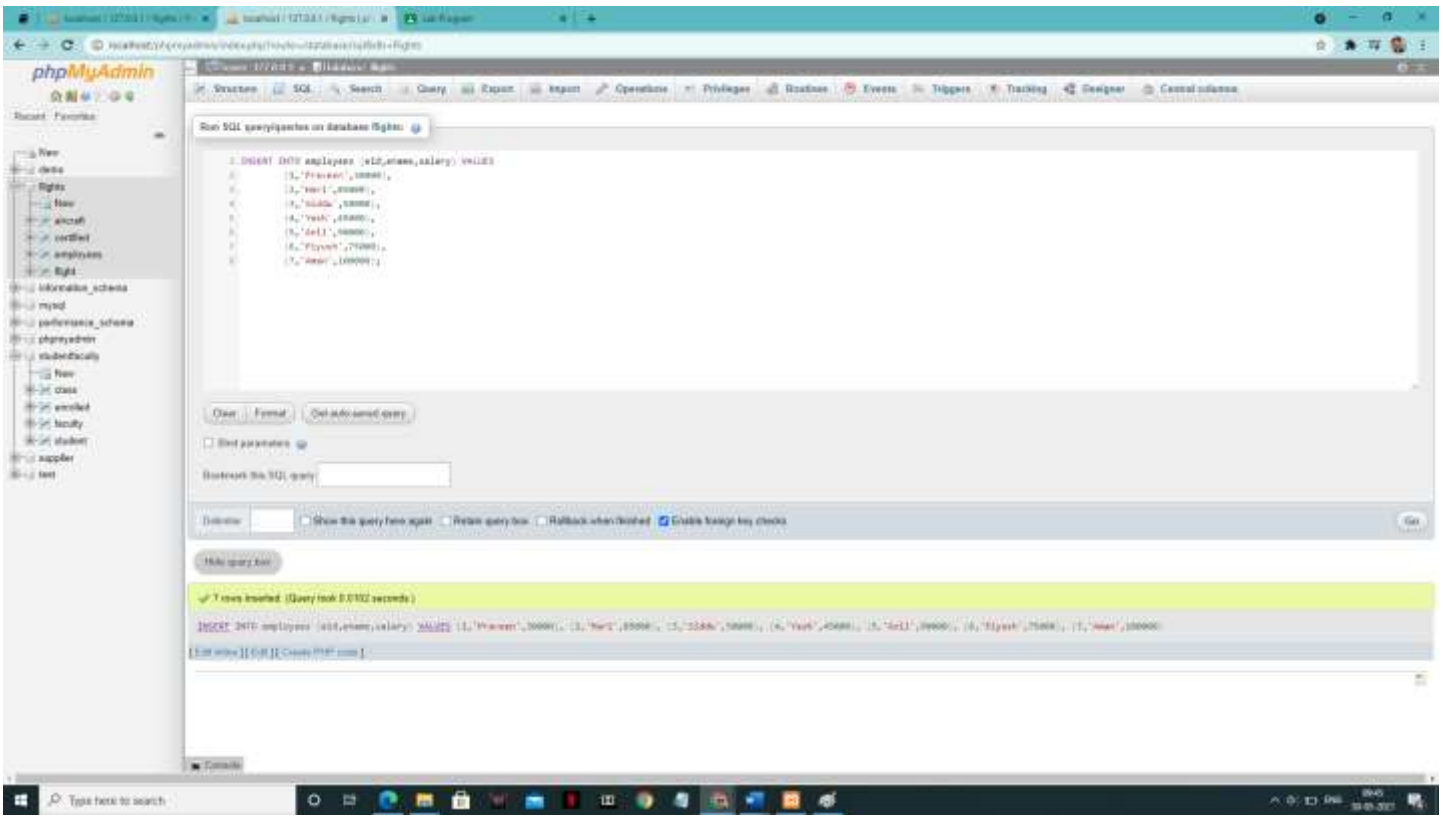
'AIRCRAFT' table:



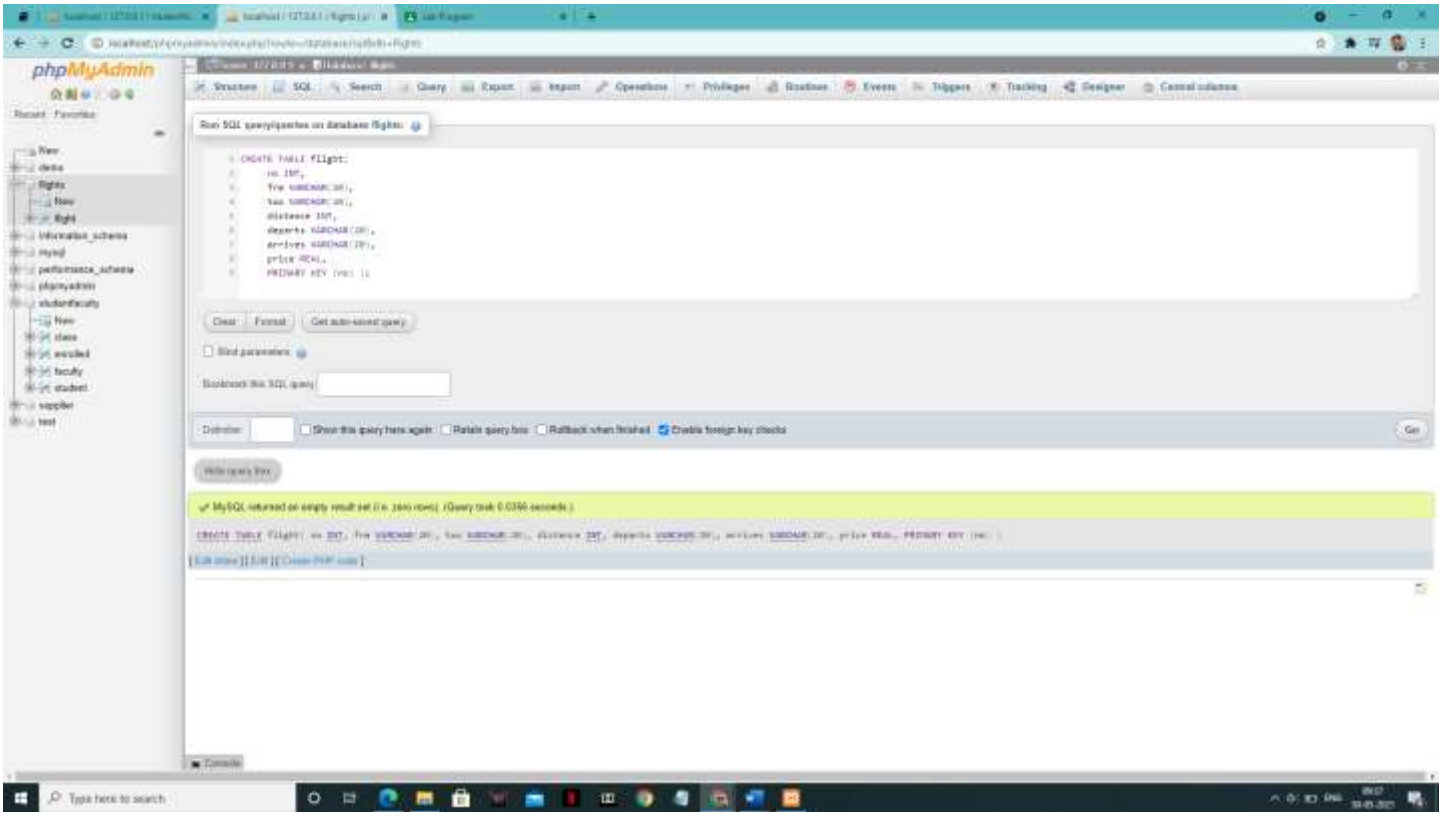


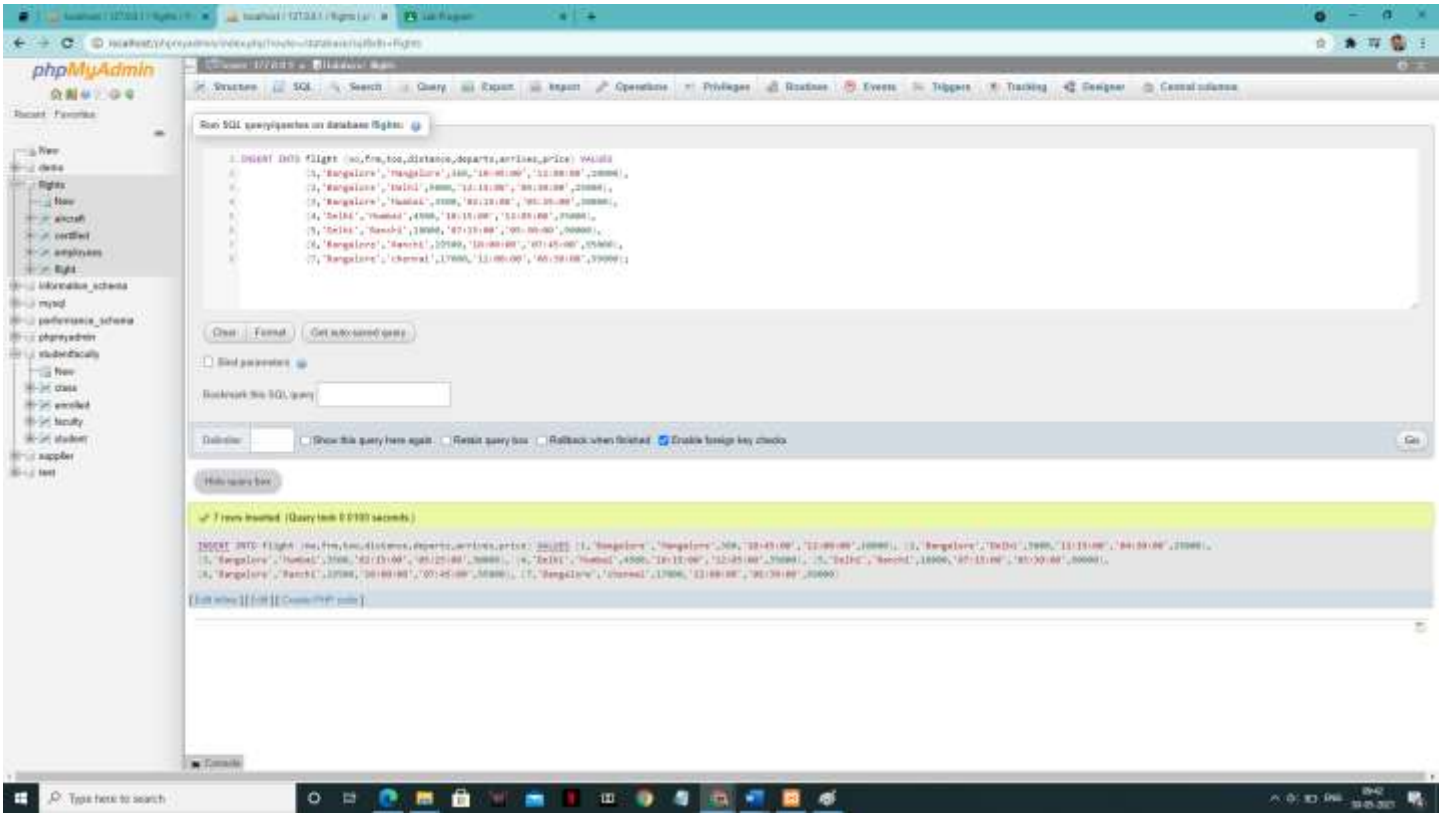
‘EMPLOYEES’ table:


phpMyAdmin
Run SQL query/queries on database flights:
CREATE TABLE employees(
eid INT,
ename VARCHAR(20),
salary INT,
PRIMARY KEY (eid));
Clear
Format
Get auto-saved query
Bind parameters
Bookmark this SQL query:
Show this query here again
Retain query box
Rollback when finished
Enable foreign key checks
Go
Profiling
Edit inline
Edit
Create PHP code
MySQL returned an empty result set (i.e. zero rows). (Query took 0.0287 seconds.)
CREATE TABLE employees(eid INT, ename VARCHAR(20), salary INT, PRIMARY KEY (eid))
Console

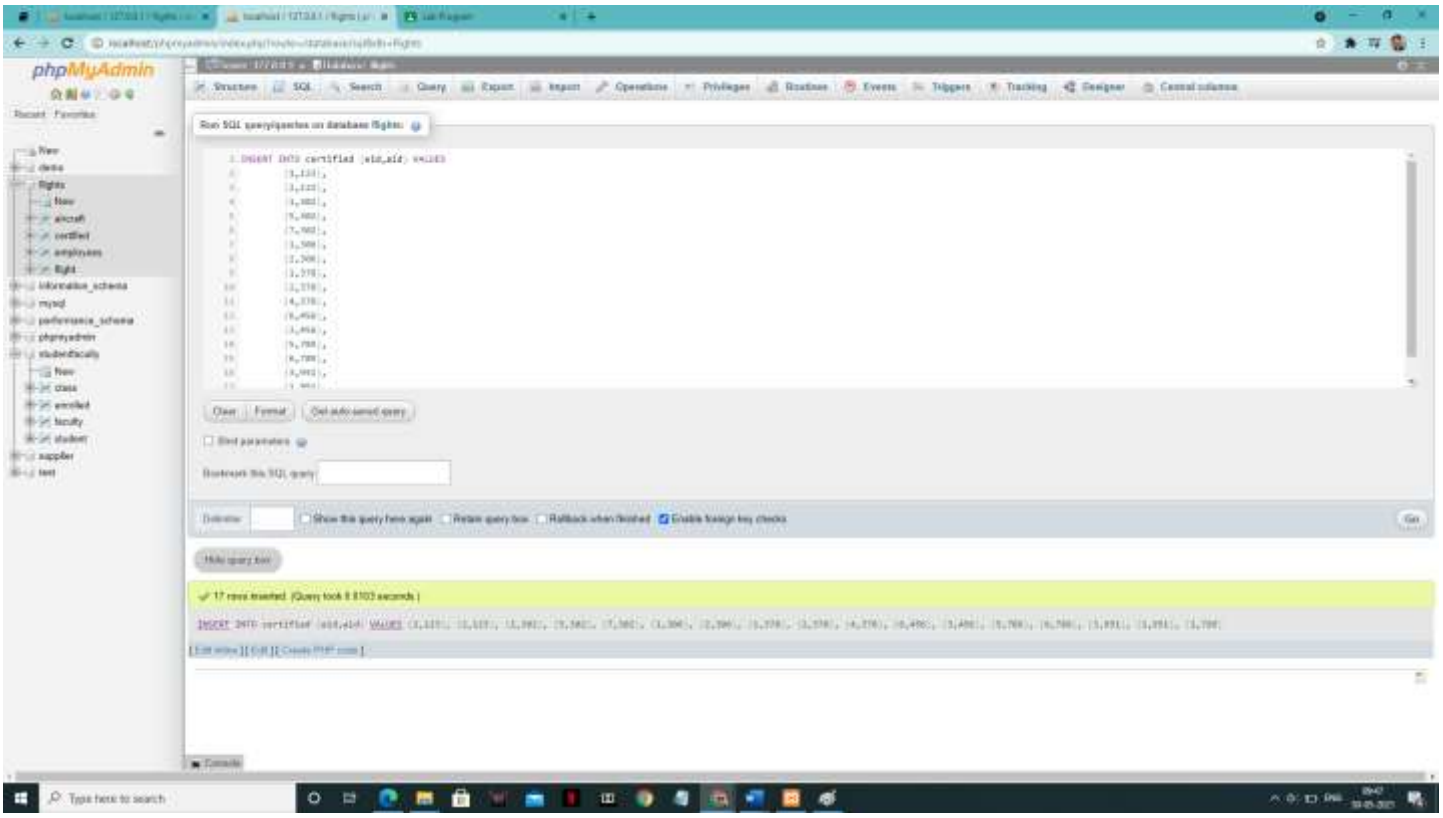

phpMyAdmin
Run SQL query/queries on database flights:
INSERT INTO employees (eid,ename,salary) VALUES
(1,'Praveen',50000),
(2,'Hari',45000),
(3,'Sidda',50000),
(4,'Yash',45000),
(5,'Anil',39000),
(6,'Vijay',75000),
(7,'Amar',100000);
Clear
Format
Get auto-saved query
Bind parameters
Bookmark this SQL query:
Show this query here again
Retain query box
Rollback when finished
Enable foreign key checks
Go
Profiling
Edit inline
Edit
Create PHP code
7 rows inserted. (Query took 0.0102 seconds.)
INSERT INTO employees (eid,ename,salary) VALUES (1,'Praveen',50000), (2,'Hari',45000), (3,'Sidda',50000), (4,'Yash',45000), (5,'Anil',39000), (6,'Vijay',75000), (7,'Amar',100000)
Console

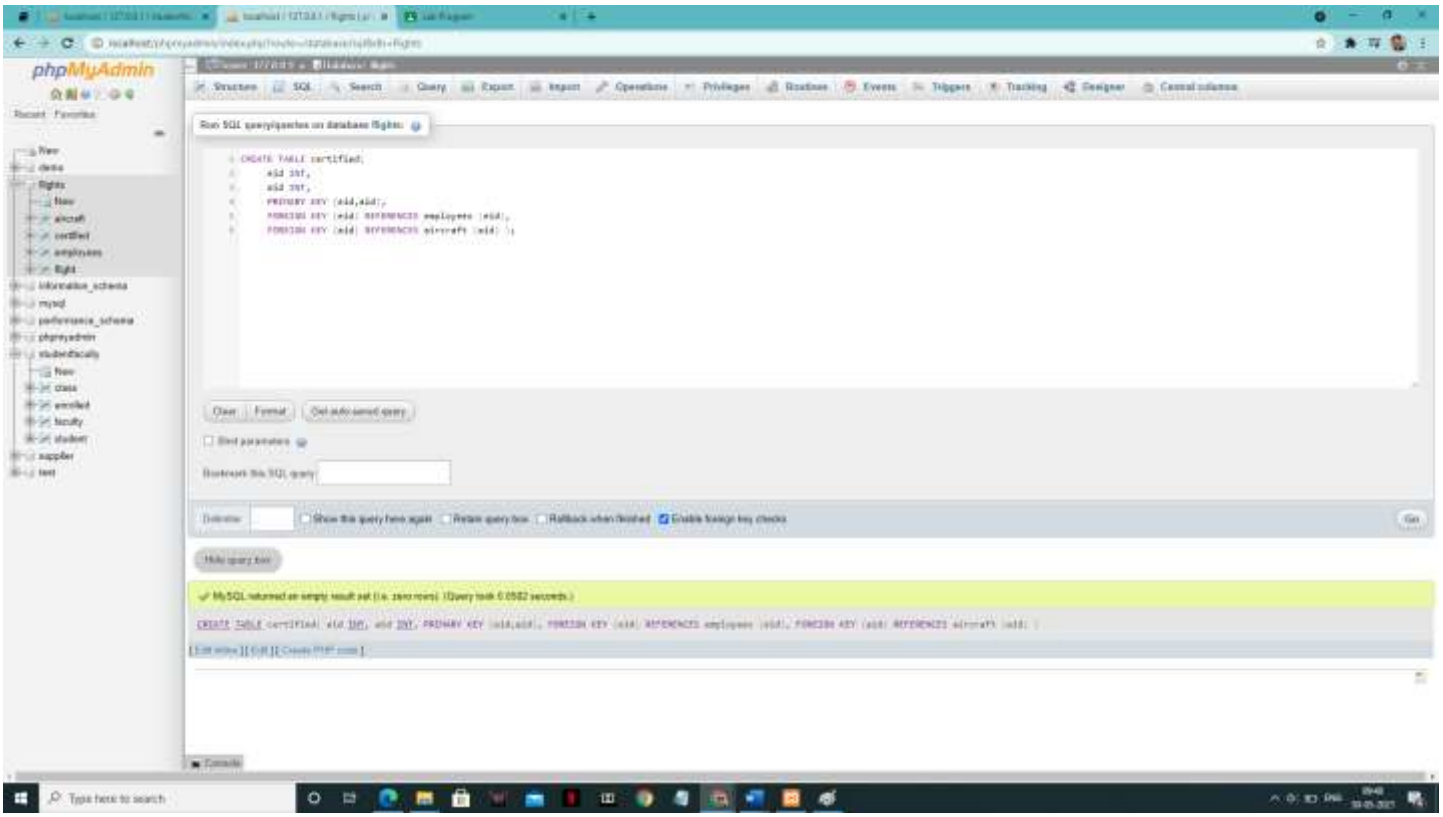
‘FLIGHT’ table:





CERTIFIED value: -





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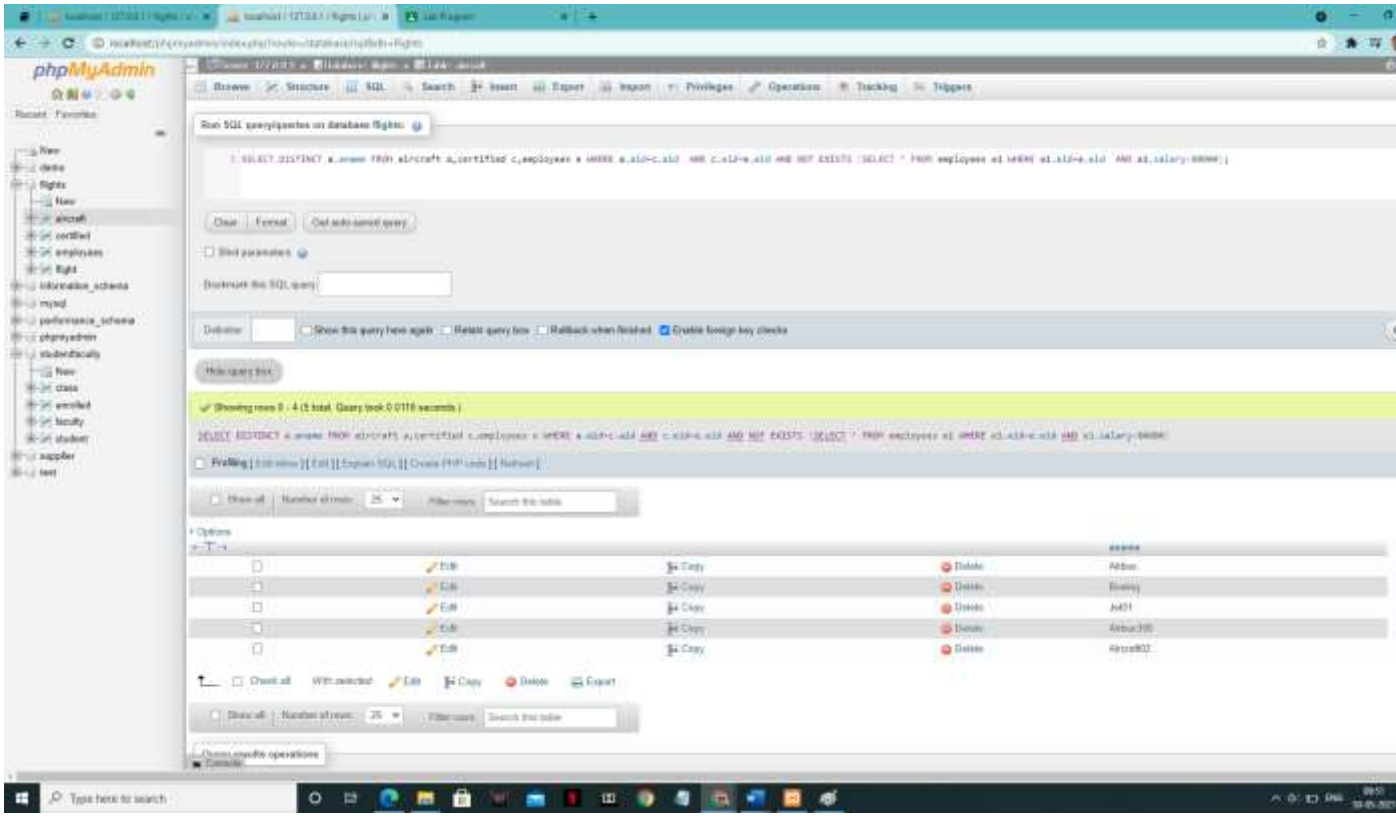

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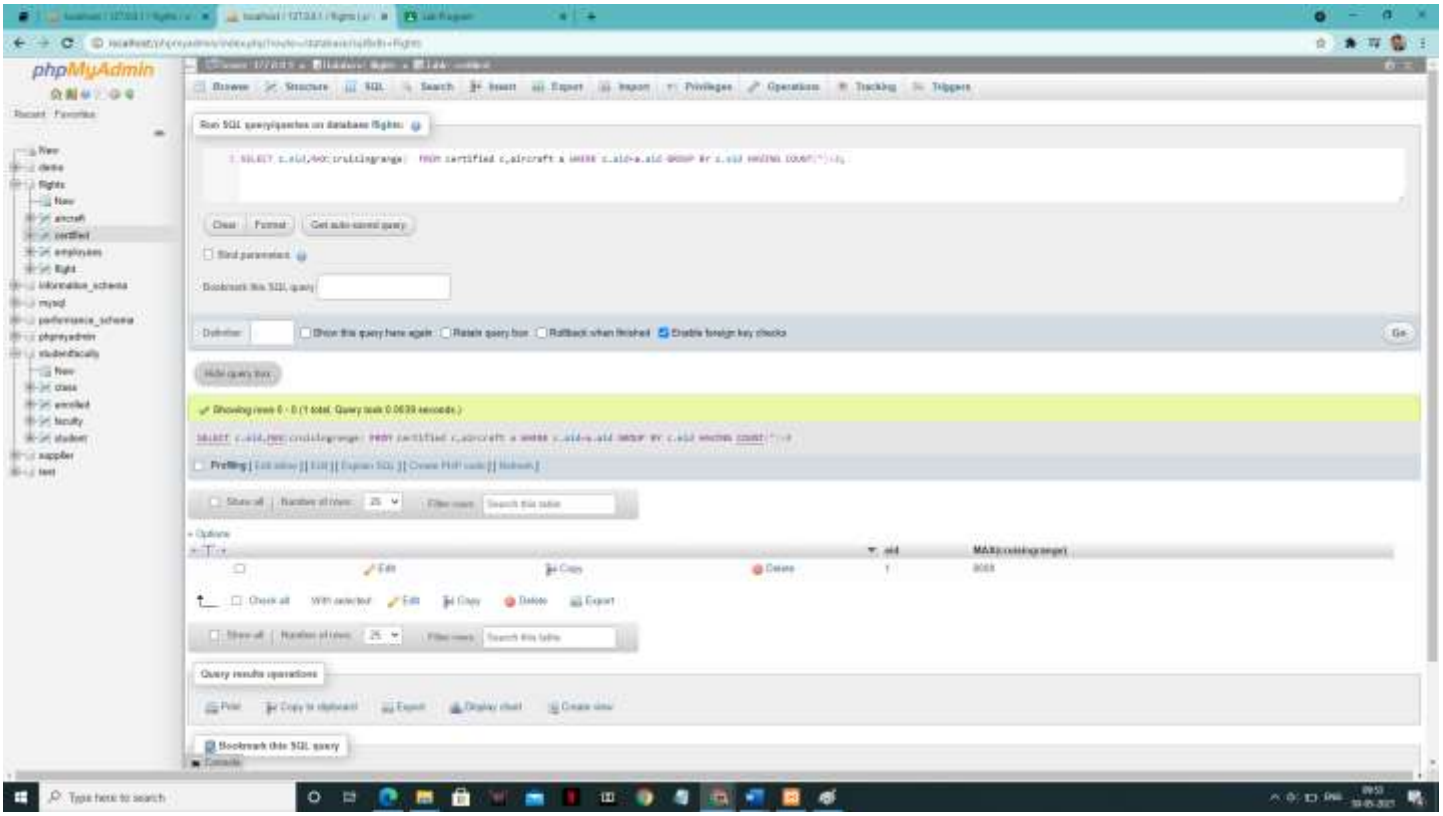

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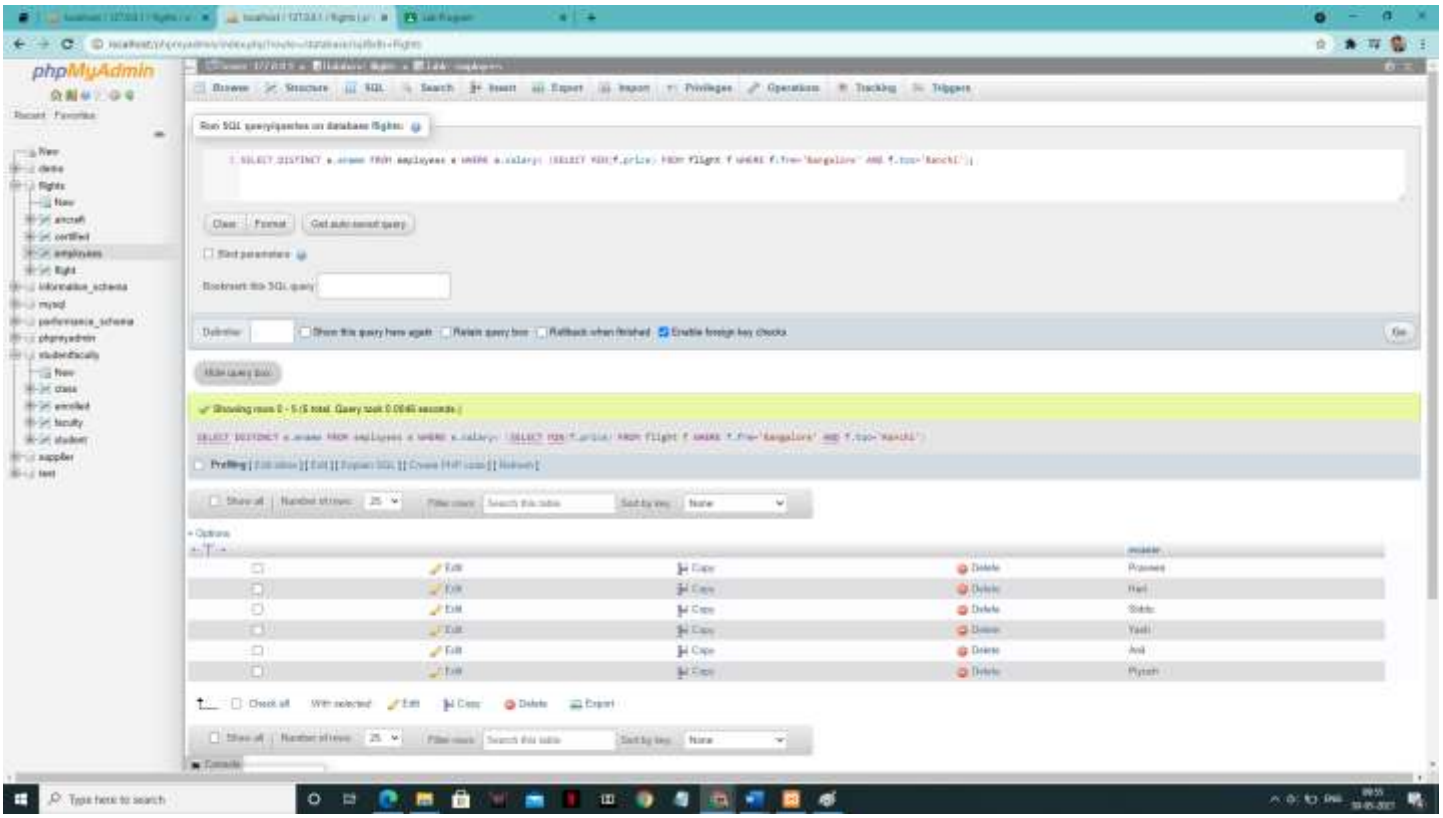

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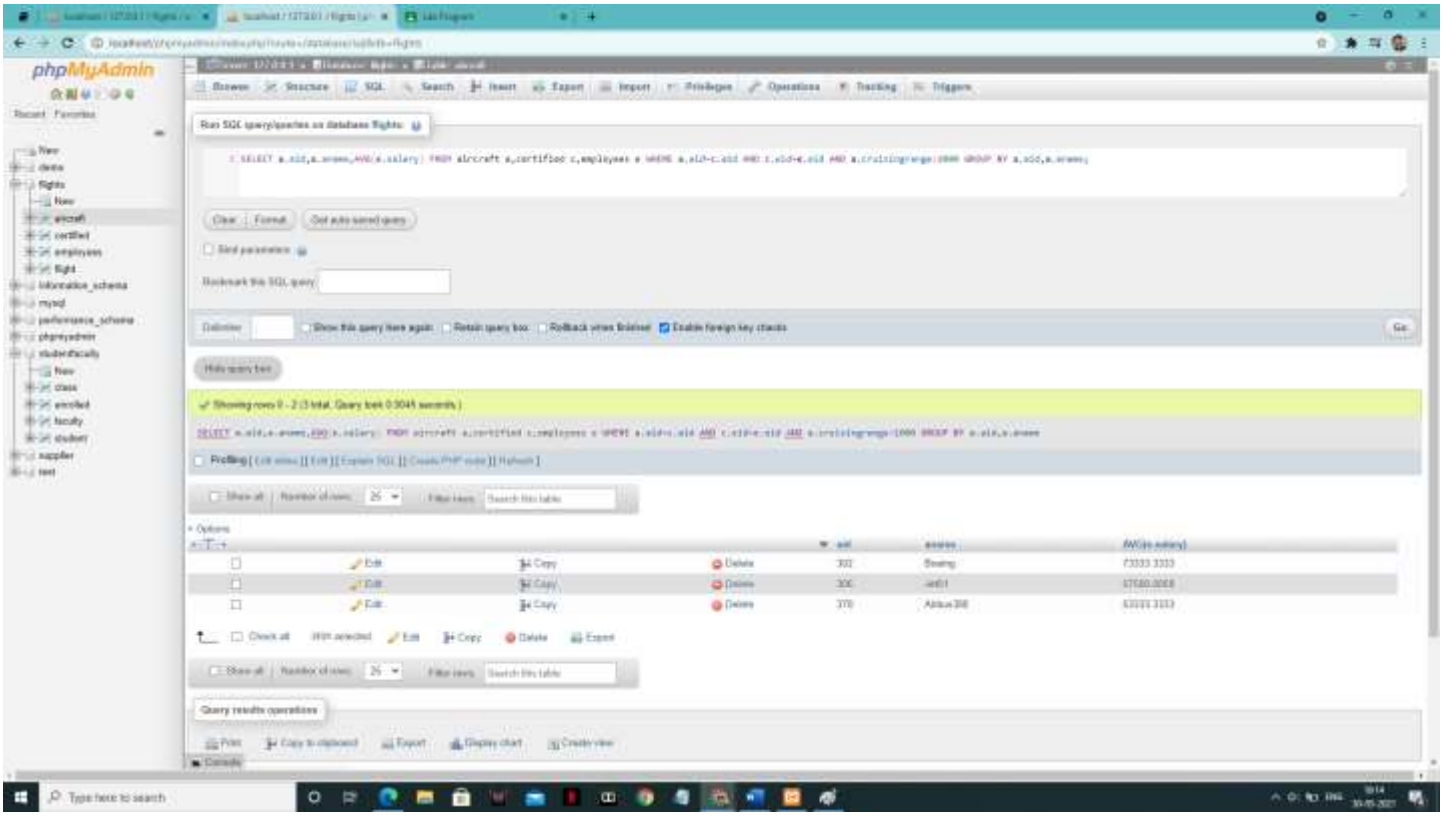

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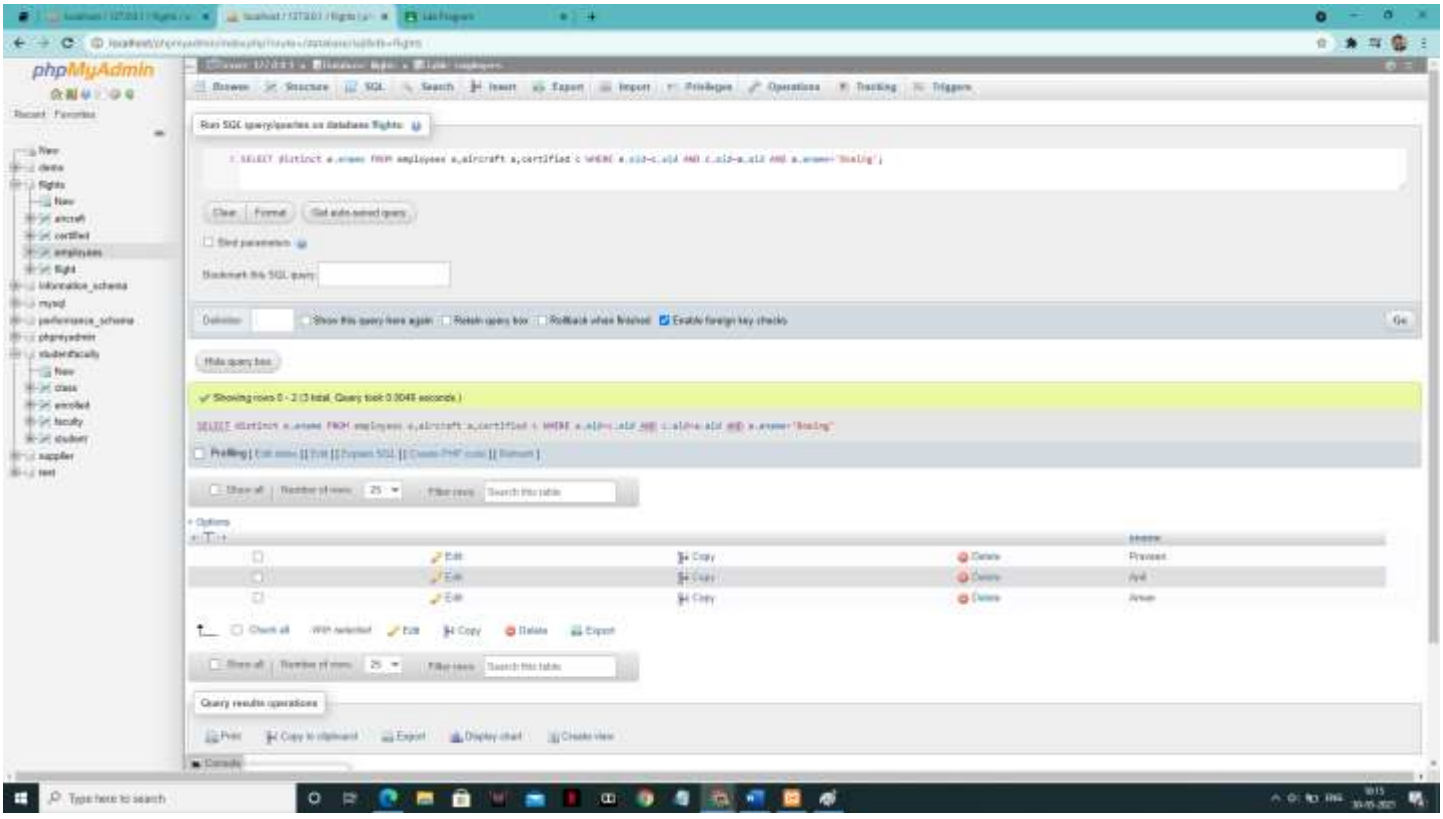

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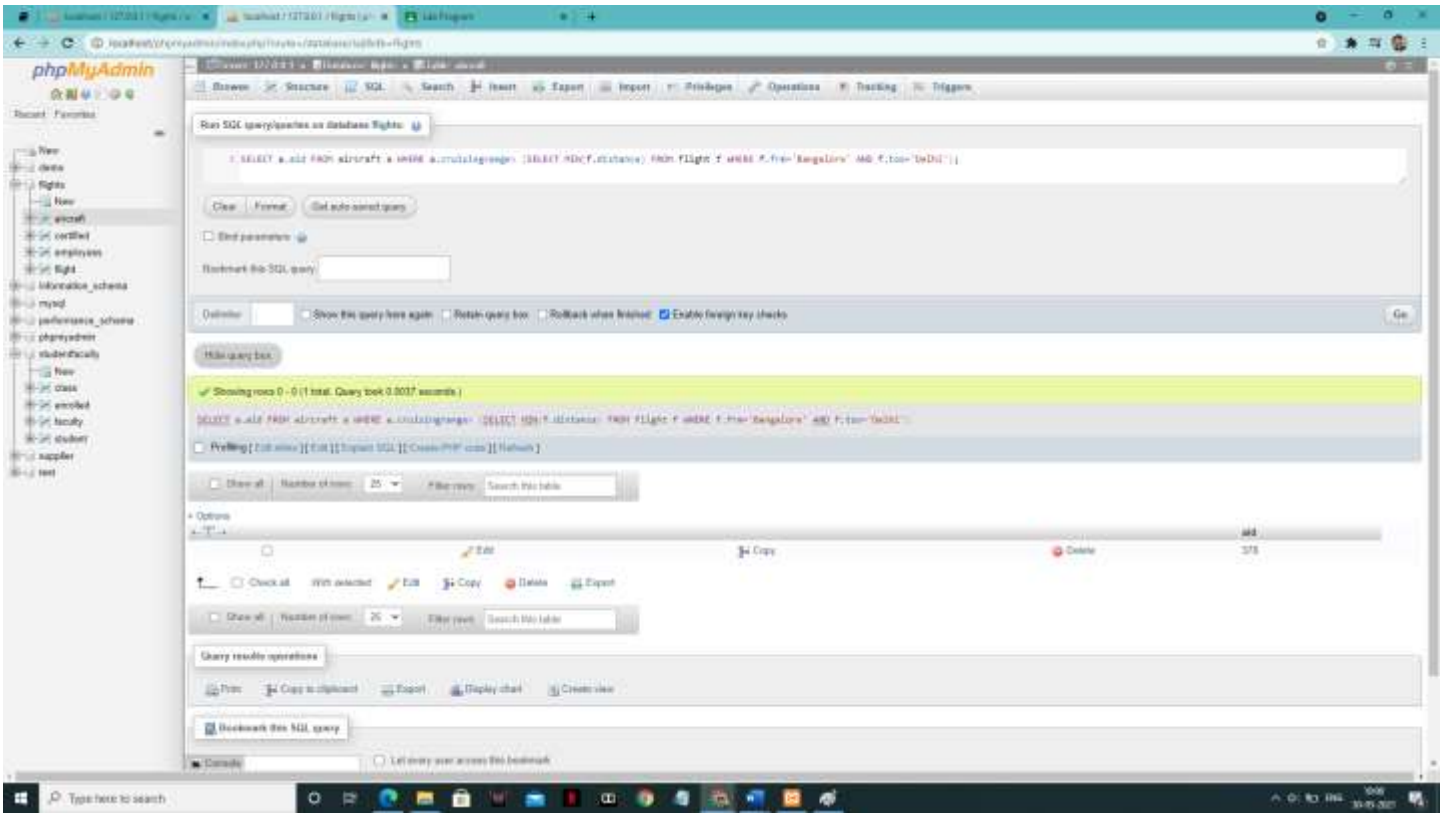

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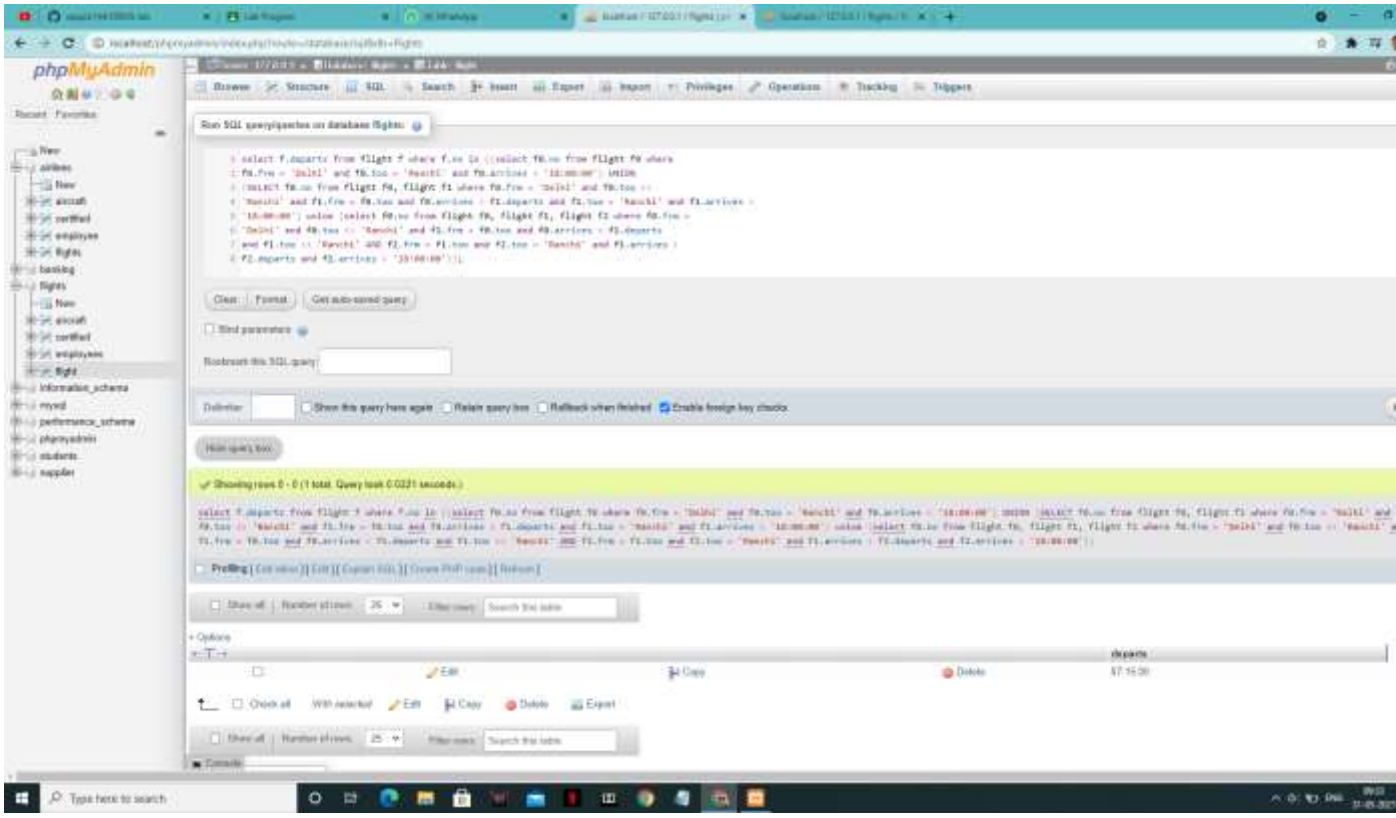

8:-