INDEXING

In the restaurant database we have two applications,

1)Admin – Handles INSERT, UPDATE, DELETE commands which are exercised by the administrator.

2)User- Aims to handle various SELECT QUERIES which require indexing to provide quicker memory access.

MySQL uses B+ tree as its standard mode of indexing and all the primary keys are indexed by default. For Example, *employee_id* is indexed automatically in **employee_list** table and *chef_id_*is indexed from **chef_details** since they are PRIMARY KEYS.

Besides this, we have created the following indices

■ Create index cust emp on place order (customer id, employee id);

This is useful for the query:

```
Select order_id from place_order where Customer id= "?" and employee id="?";
```

This query aims to find the order_id, given the customer_id and employee_id. Hence, indexing the customer_id and employee_id, which are both foreign key attributes, can speed up the process of retrieval.

Create Index ph_no on customer_list(phone_no);

This is useful for the query:

```
select * from customer list where phone no=' +number +';
```

This query aims to find the customer details given the Phone number. Hence, Indexing the Phone_no, which is a non-key attribute, can speed up the process of retrieval.