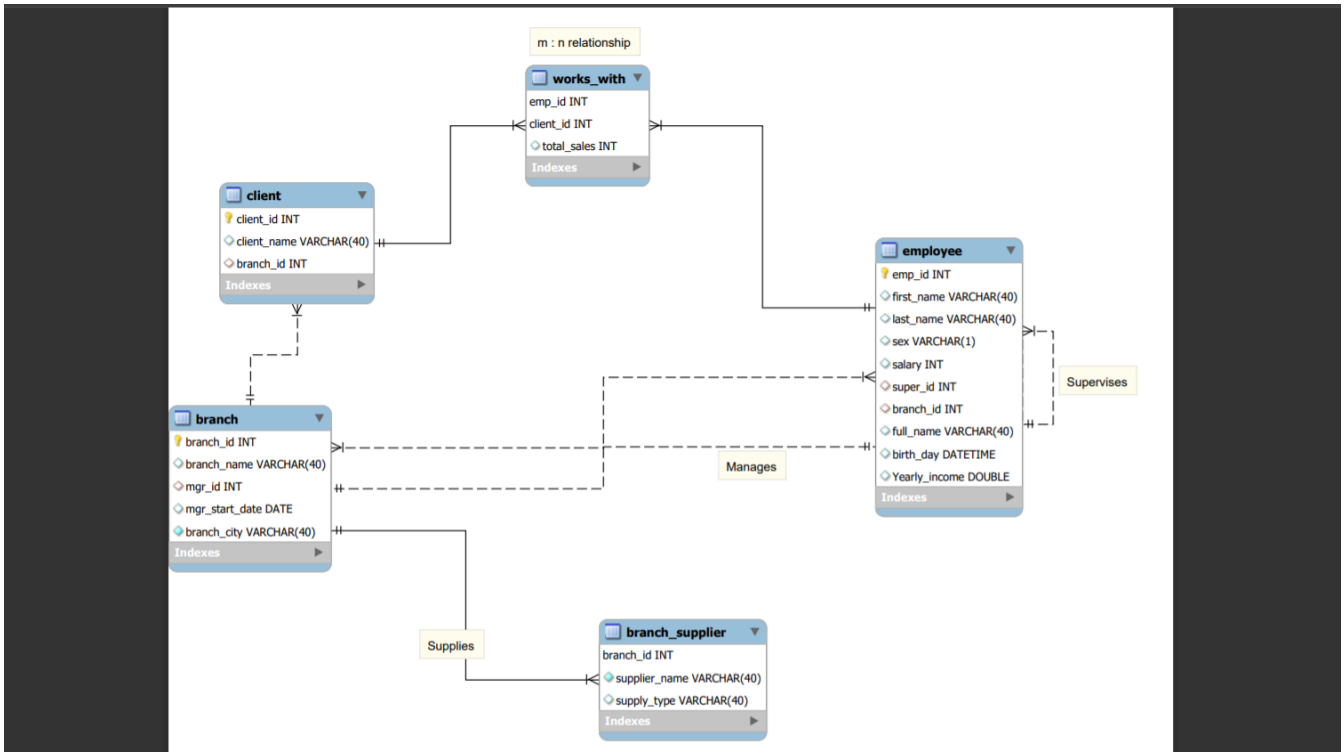
DBMS Assignment-2

1. Showcased a many-many relation between clients and employees using works_with entity.

2. **Composite Keys :**

   In works_with enitity : Primary Key (emp_id,cliend_id)

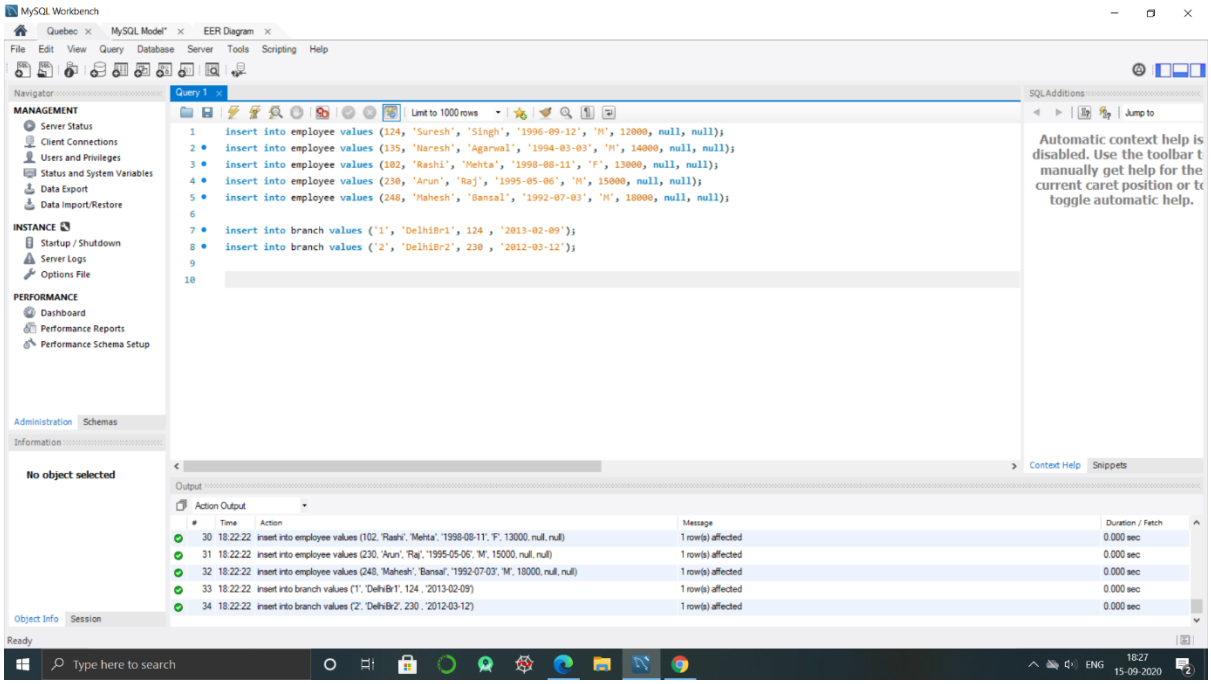
   Weak Entity : branch_supplier , works_with



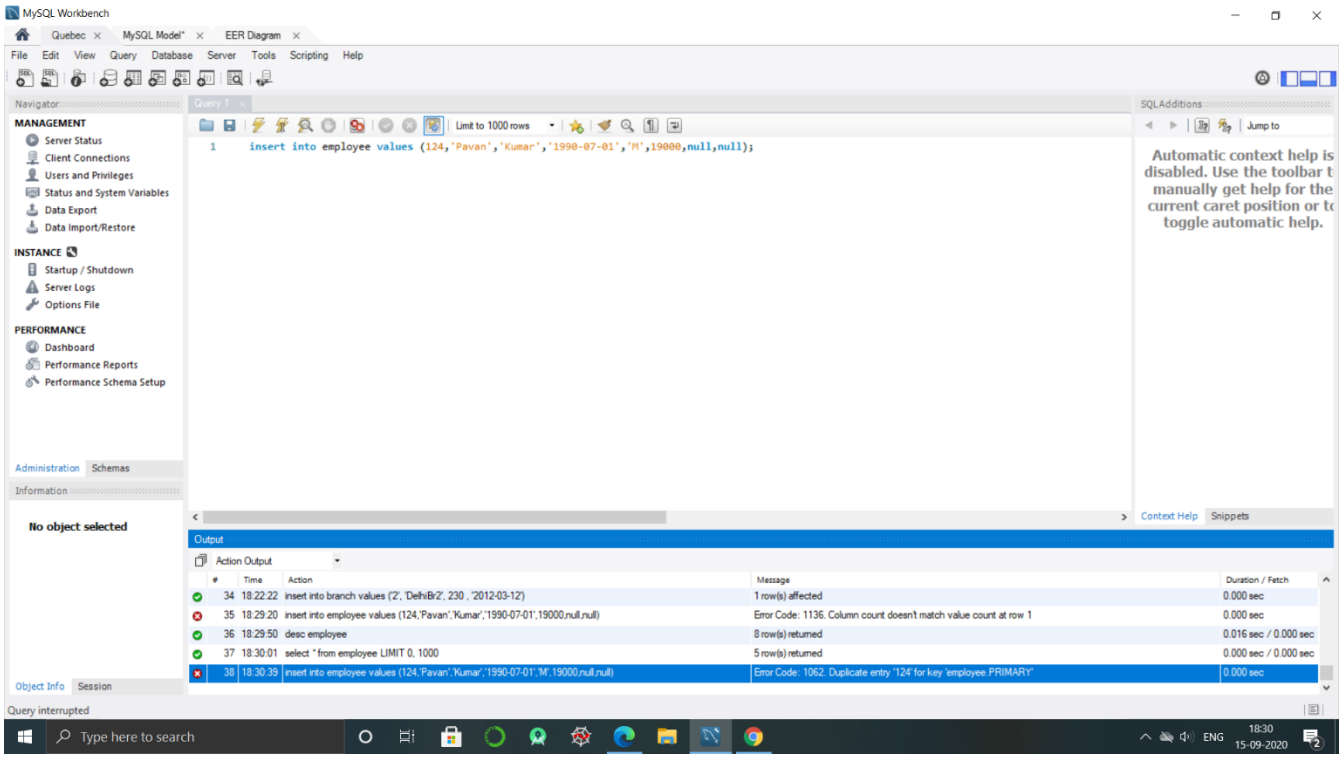
ER Diagram Of Company Database

3. a. Checking Primary Key and Unique Constraint :

Inserting Data into tables :

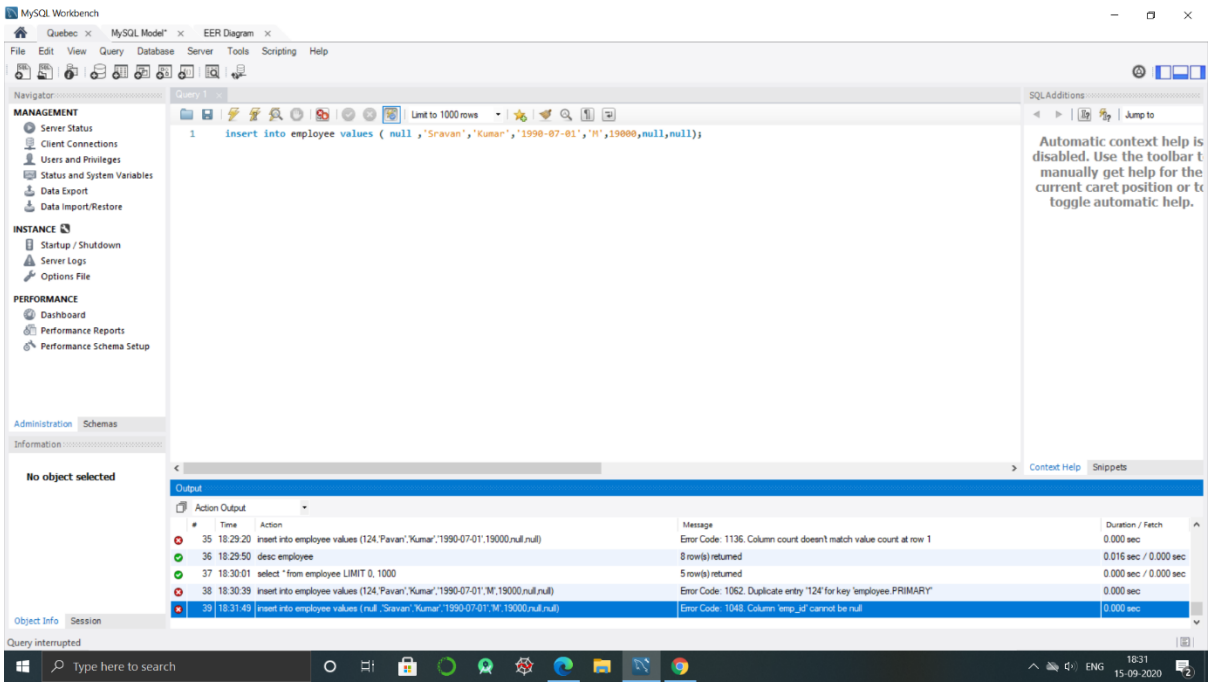


When Trying to insert duplicate value for attribute emp_id of employee table which is a primary key :

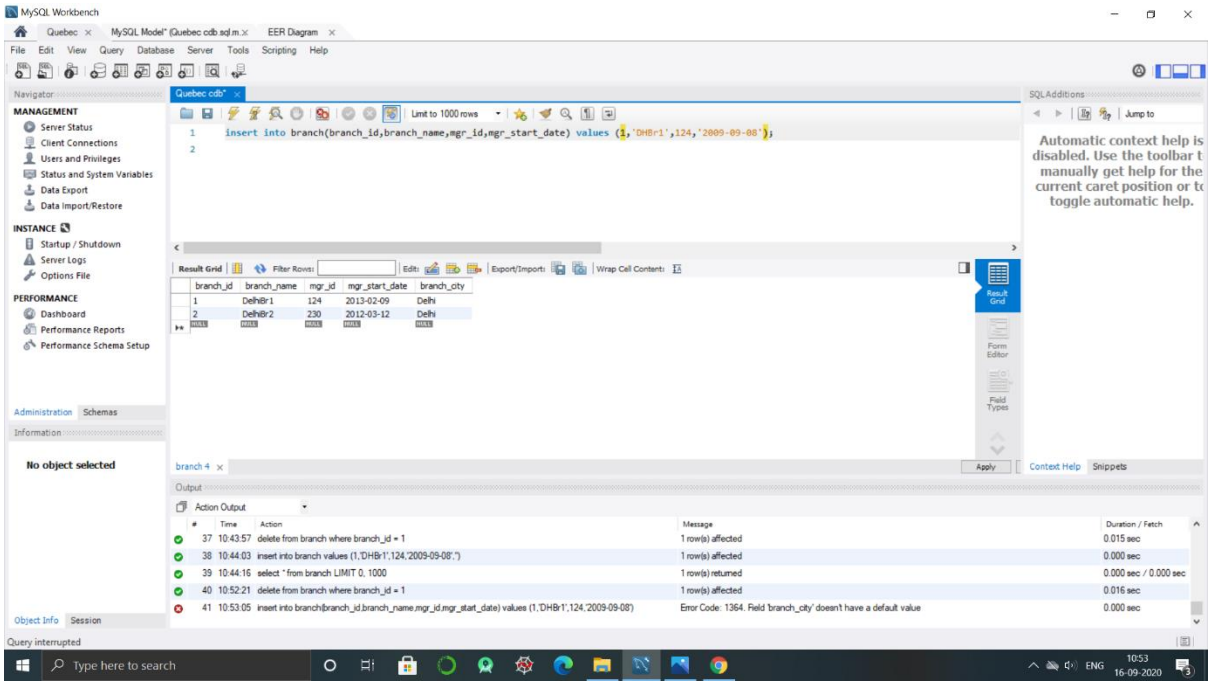


b. Checking Not Null and Default Constraint :

1. When Trying to insert null value for attribute emp_id of employee table which is specified as not null :



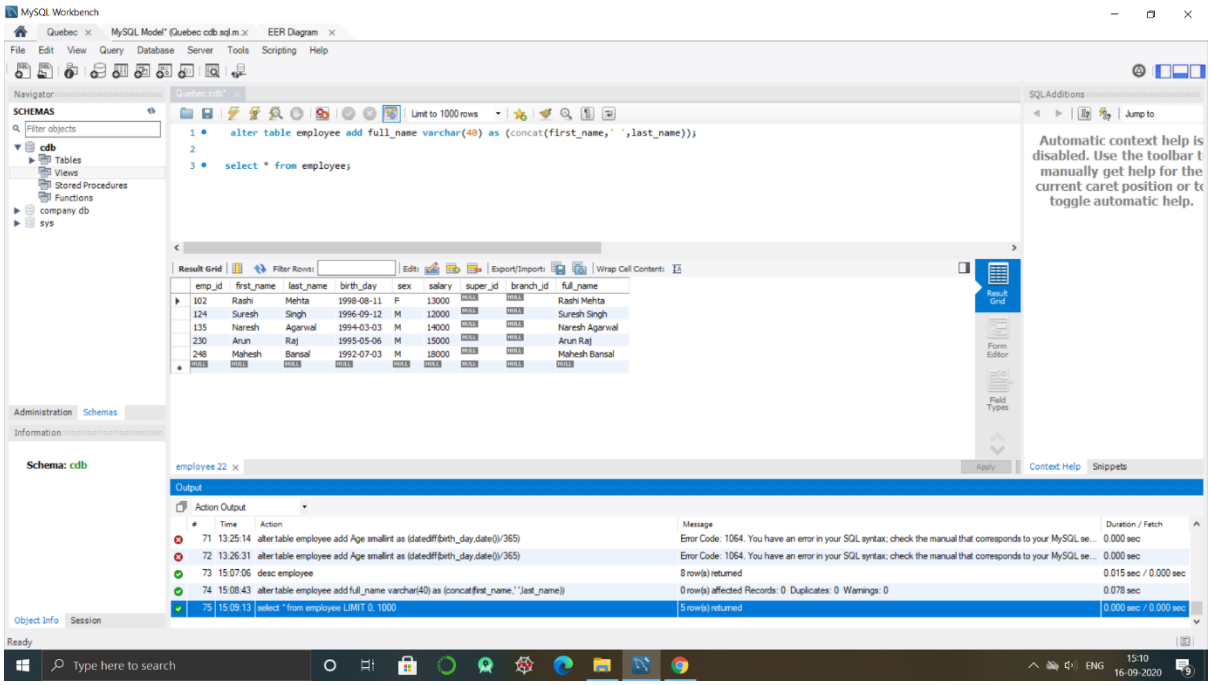
2. When Trying to insert values into branch table in which the attribute branch_city doesn't have any default value :



4. Derived Attributes :

a. full_name attribute of employee table :

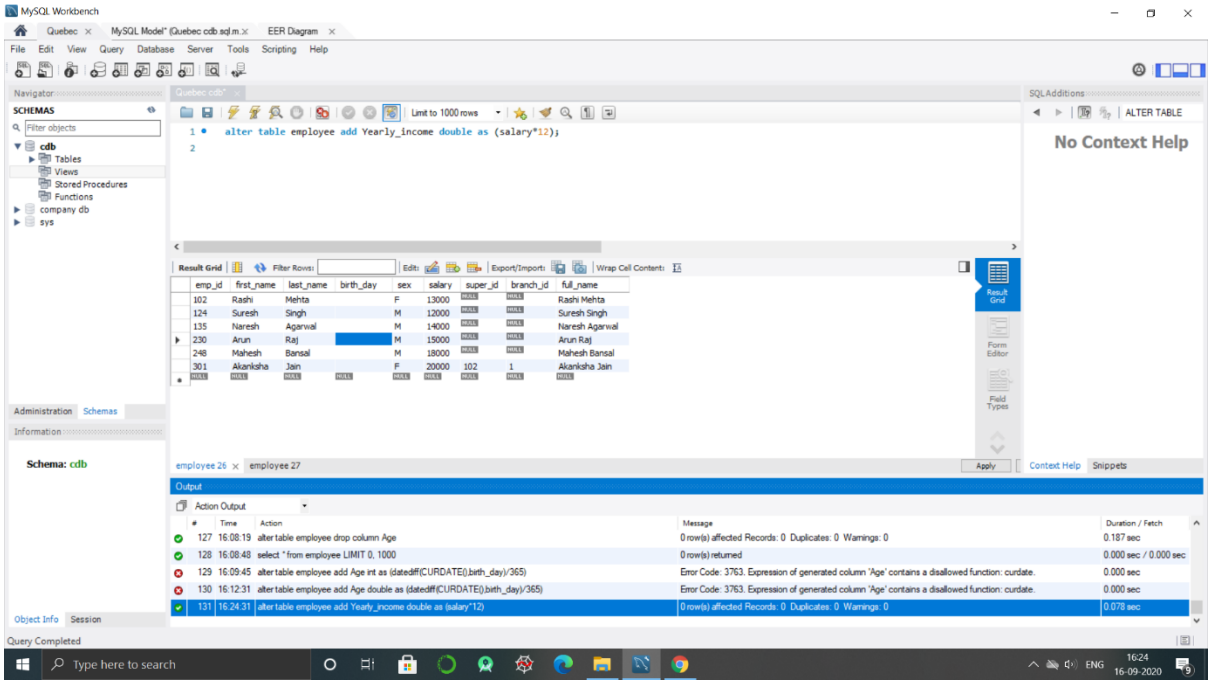
Dependant on/Derived from concatenation of first_name and last_name attributes of employee table.



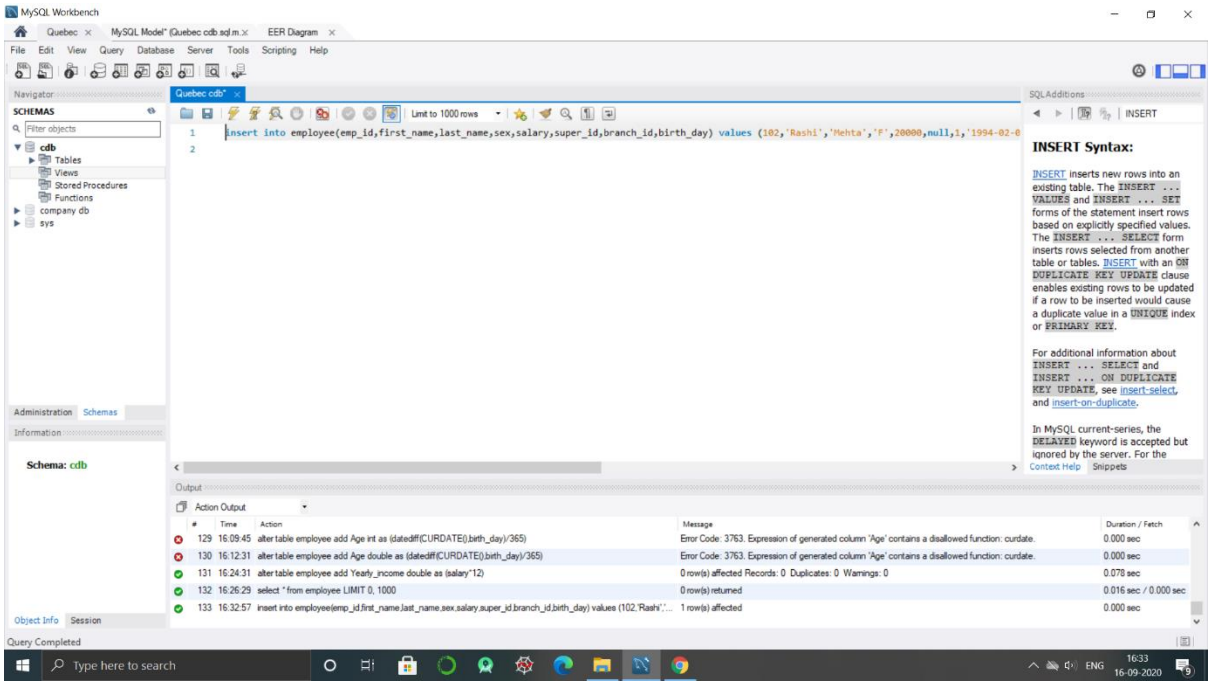
b. Yearly_income attribute of employee table :

Dependant on / derived from salary column of the employee table as Yearly_income = salary*12.

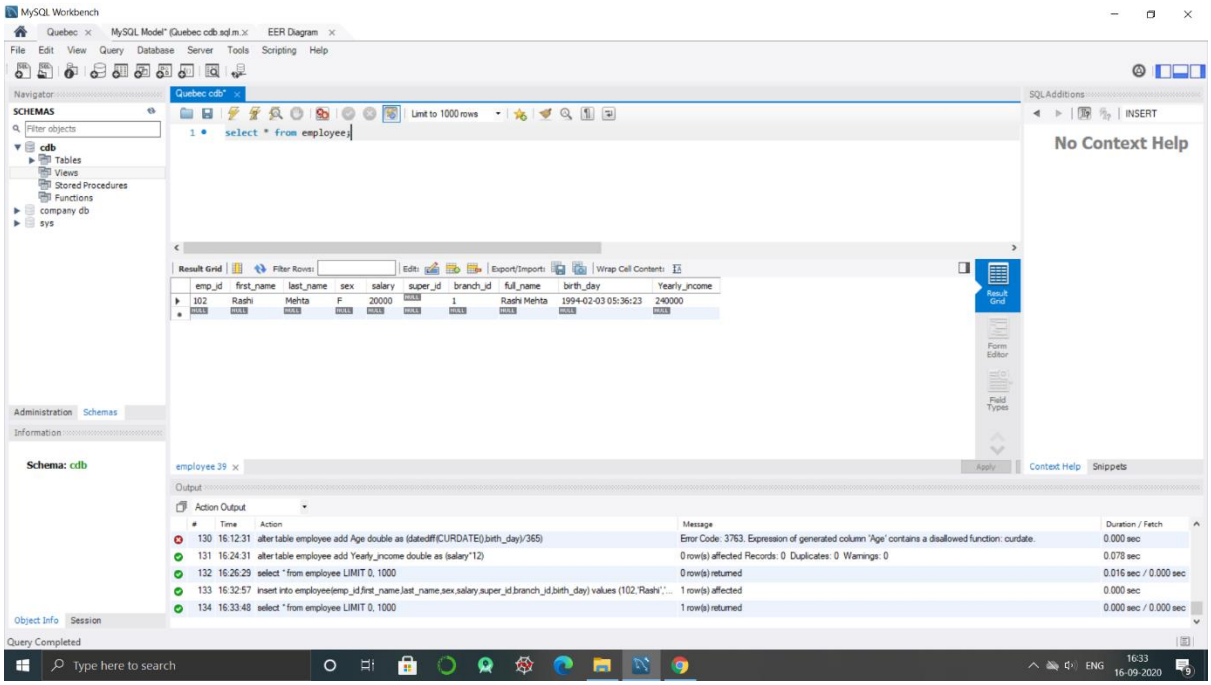
1.Query/Expression:



Insertion :



Result :



5. **Inserting tuples into dependant table of a foreign key constraint first.**

Employee table is dependant on branch table for getting branch_id which is the foreign key of the table. If we insert data into branch_id column of employee table without inserting any data into branch table then :