DBMS Project Report

PES University

Database Management Systems

UE20CS301

Submitted By

PES1UG20CS721 Sneha Saravanan

Zoo/Wildlife Sanctuary Management System

Summary :

The project is a small scale depiction of an actual database of a zoo or wildlife Sanctuary. The aim of the project was to build a system that efficiently records all the aspects of a zoo and efficiently stores them. It consists of entities – animals , food , adoption, souvenir, staff, tourist etc and relationships – buys , visits, adopts . It also consists of operations relating the tables and the values of the tuples.

Index

Introduction

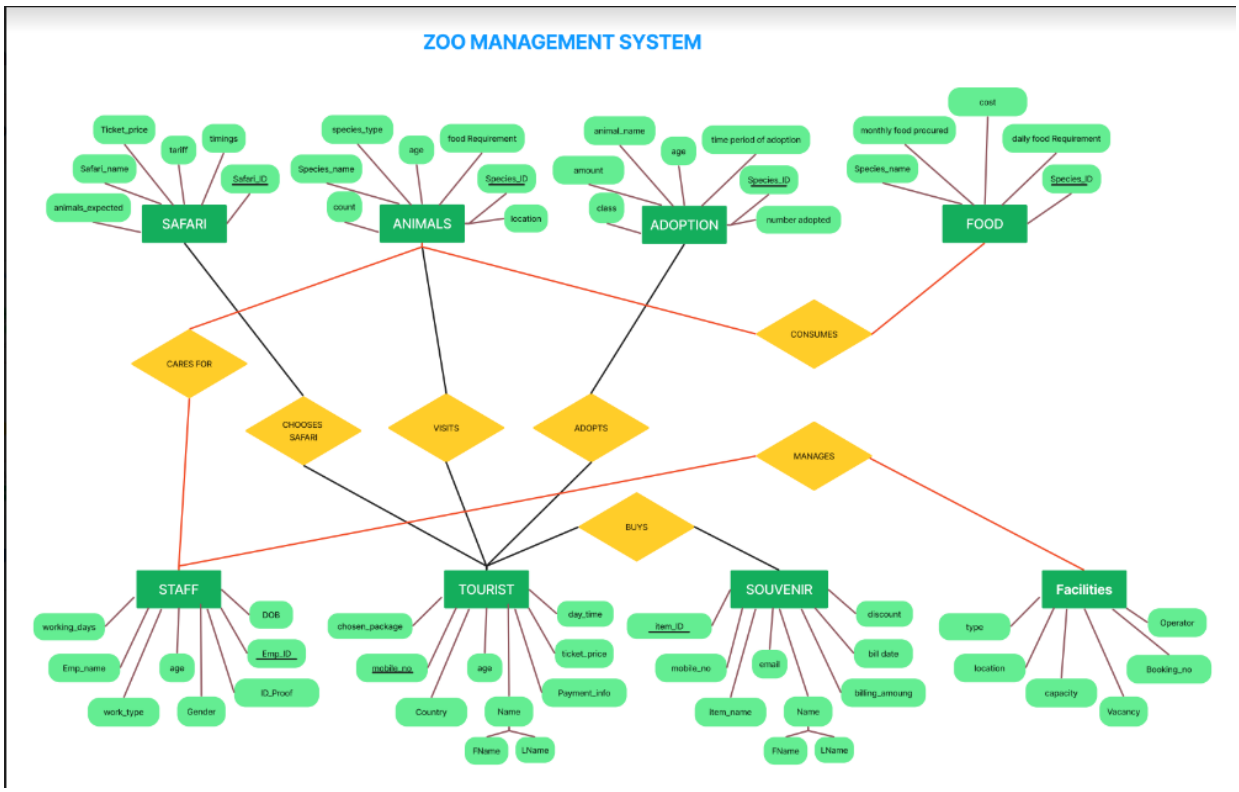
The following project consists of 11 tables primarily:

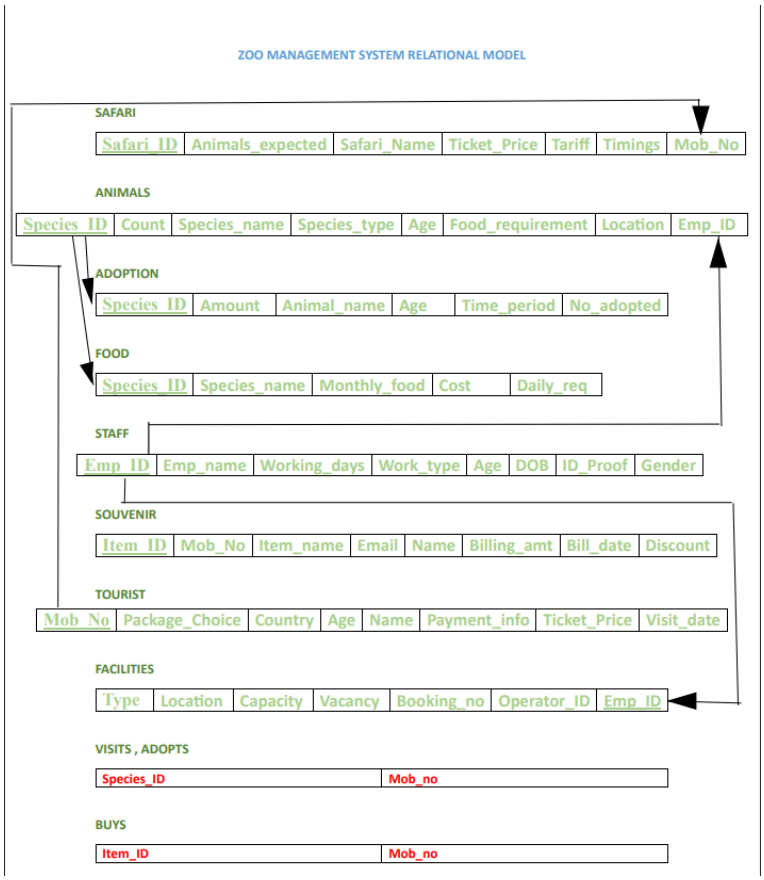
1. Adoption – consists of records of the animals adopted, the class the belong to (Diamond > 3Lakh, Gold up to 2 Lakhs , Silver up to 1 lakh), their age , number of animals adopted, the name of the adopter, the money paid for adoption and the time period (years) of adoption.
2. Animals – consists of the names of animals , their age, a specific species ID allotted to them , the gender of the animals and the ID of their Care taker.
3. Food – consists of the food requirement of all species, the daily and monthly food requirement of each animal .
4. Safari – consists of the safaris available in the zoo – tiger , ion , carnivore and herbivore safari . It also holds the timings of the safari(hours), the animals expected to be seen in the safari , the ticket price(including tariff) and the tariff split up.
5. Facilities – holds the facilities available in the zoo premises like Battery operated car services, AC vehicles for safari , Parking for 2 and 4 wheelers , restaurants etc.
6. Staff – holds the records containing the details of the employees of the zoo , their unique ID , names , number of working days, their work type and their age and date of birth.
7. Tourist – Holds the records of people who visit the zoo . It contains their mobile number unique to each tourist, their name, the safari that they have chosen, the price of their ticket and the mode of payment .
8. Souvenir – Holds the records of a souvenir shop present in the zoo premises. Has the items , each distinguished by a unique ID, their names , the mobile number , email and name of the customer that purchased it , the total bill amount and the bill date.
9. Buys – holds the records of the item ID of the item bought and the mobile number of the buyer
10. Visit_Adopts – Holds the records of the animal adopted with its adopter or the details of the animals visited and the visitor.

It also consists of the following relations:

1. CARES FOR – maps each care taker in Staff to the Animal (1,N)
2. CHOOSES SAFARI –maps each tourist with the safari chosen (1,N)
3. VISITS – maps tourists to the animals visited (N,N)
4. ADOPTS – maps tourists to the animals adopted by them (N,N)
5. BUYS – maps each tourist to the item the bought in the souvenir shop (N,N)
6. MANAGES – maps each employee to the facility that they manage or operate (1,1)

Data Model


ZOO MANAGEMENT SYSTEM
SAFARI
Ticket_price
tariff
timings
Safari_name
Safari_ID
animals_expected
ANIMALS
species_type
age
food Requirement
Species_name
Species_ID
count
location
ADOPTION
animal_name
age
time period of adoption
amount
Species_ID
class
number adopted
FOOD
cost
monthly food procured
daily food Requirement
Species_name
Species_ID
CARES FOR
CHOOSES SAFARI
VISITS
ADOPTS
CONSUMES
MANAGES
BUYS
STAFF
working_days
DOB
Emp_name
Emp_ID
age
ID_Proof
work_type
Gender
TOURIST
chosen_package
day_time
mobile_no
ticket_price
age
Payment_info
Country
Name
FName
LName
SOUVENIR
Item_ID
discount
mobile_no
email
bill date
billing_amoung
Item_name
Name
FName
LName
Facilities
type
Operator
location
Booking_no
capacity
Vacancy

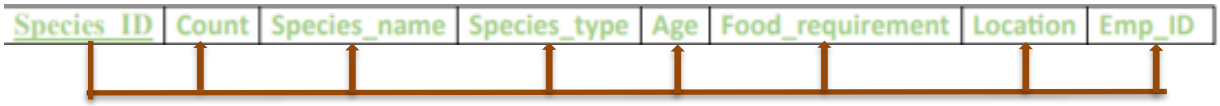

ZOO MANAGEMENT SYSTEM RELATIONAL MODEL
SAFARI
Safari_ID | Animals_expected | Safari_Name | Ticket_Price | Tariff | Timings | Mob_No
ANIMALS
Species_ID | Count | Species_name | Species_type | Age | Food_requirement | Location | Emp_ID
ADOPTION
Species_ID | Amount | Animal_name | Age | Time_period | No_adopted
FOOD
Species_ID | Species_name | Monthly_food | Cost | Daily_req
STAFF
Emp_ID | Emp_name | Working_days | Work_type | Age | DOB | ID_Proof | Gender
SOUVENIR
Item_ID | Mob_No | Item_name | Email | Name | Billing_amt | Bill_date | Discount
TOURIST
Mob_No | Package_Choice | Country | Age | Name | Payment_info | Ticket_Price | Visit_date
FACILITIES
Type | Location | Capacity | Vacancy | Booking_no | Operator_ID | Emp_ID
VISITS , ADOPTS
Species_ID | Mob_no
BUYS
Item_ID | Mob_no

FD and Normalization

All the tables created are fully functionally dependant . The determinant in all the tables created is a Primary Key and Foreign Key which are a candidate key. The dependents are mostly non-prime attributes . Hence they are fully functionally dependent .

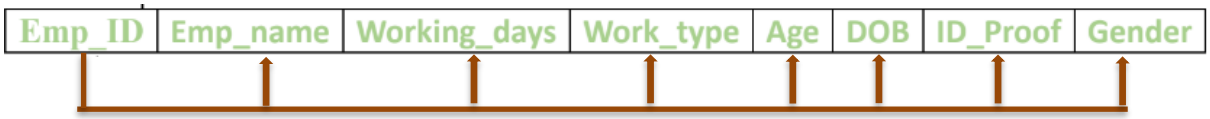
The tables are in 3 NF – this is because there are no multi-valued attributes, every non-prime attribute is full functional on only the primary key and the third most important being there is no transitive dependency in any of the tables created.

Example : ANIMALS ENTITY

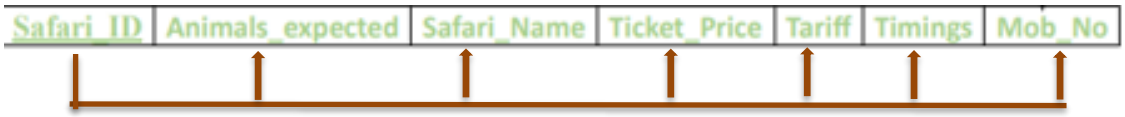


Example : FOOD ENTITY

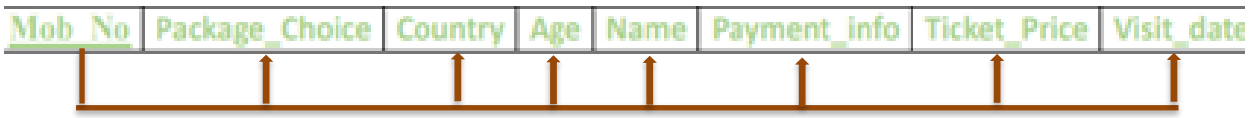
Example : STAFF ENTITY



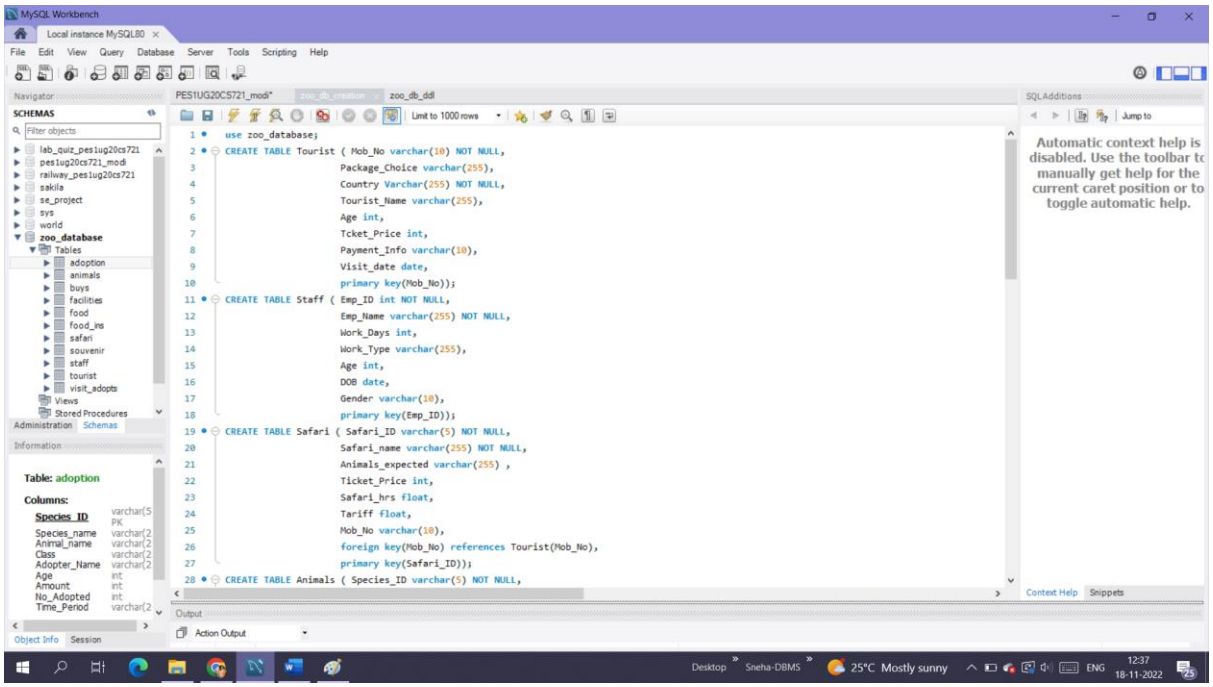
Example : SAFARI ENTITY

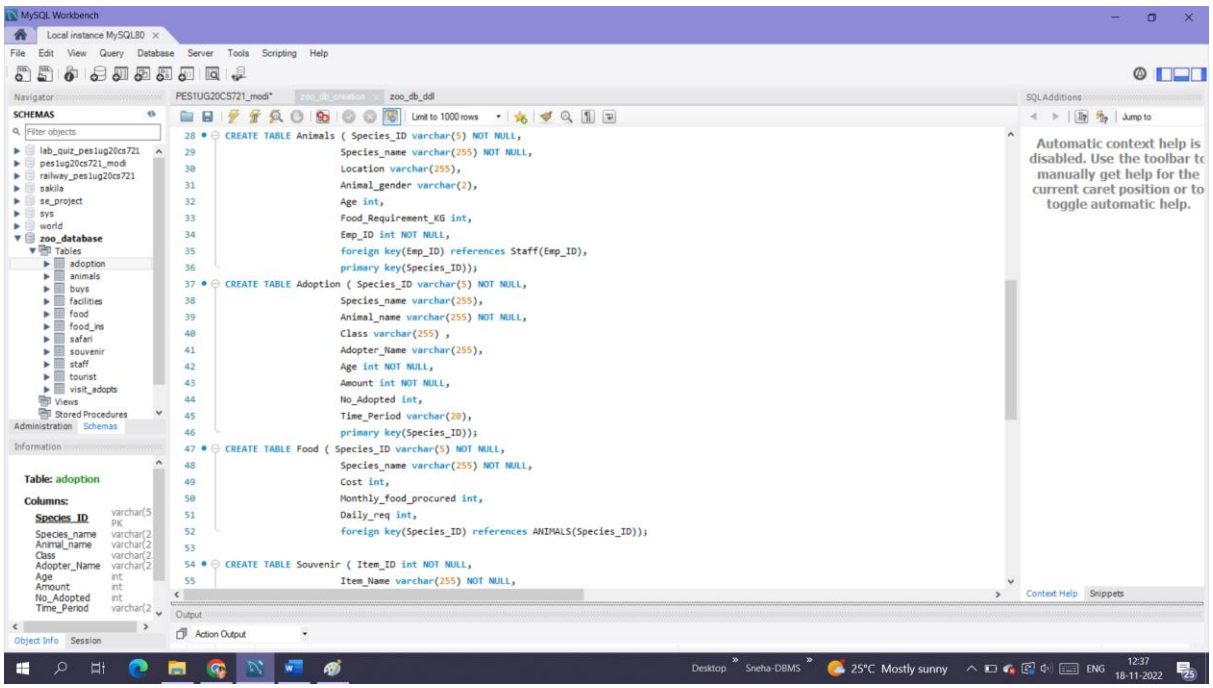


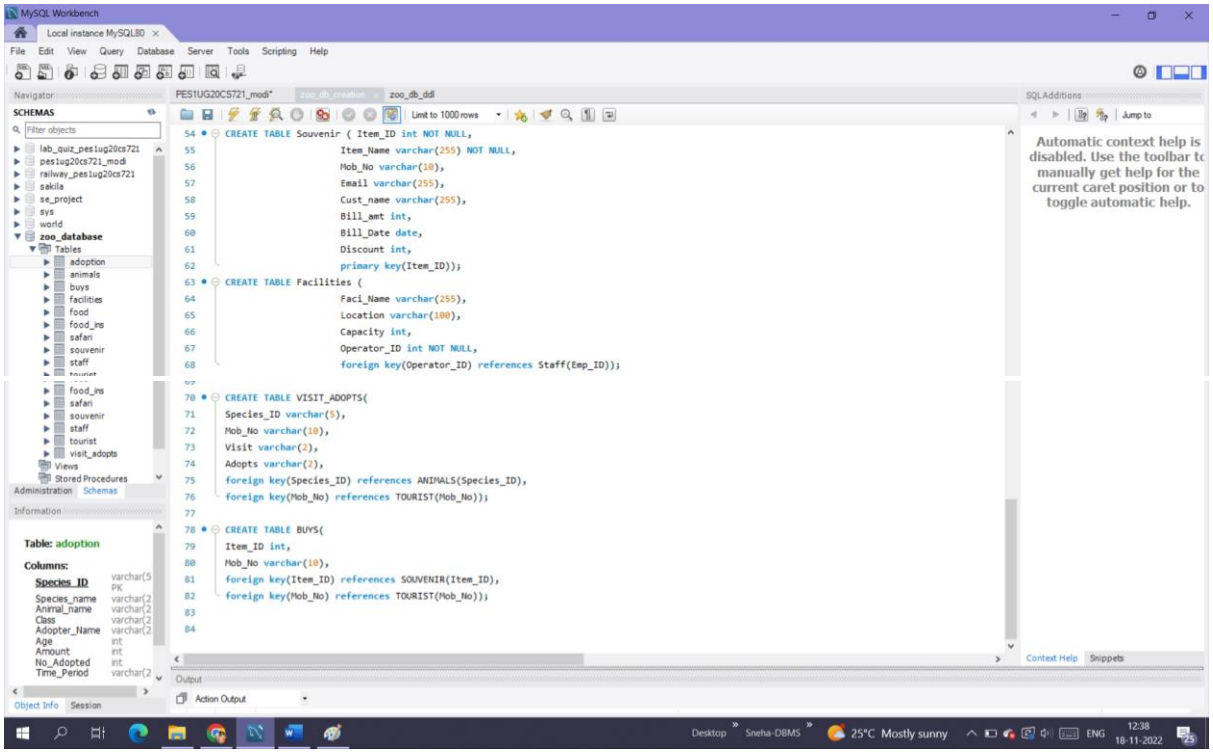
Example : TOURIST ENTITY

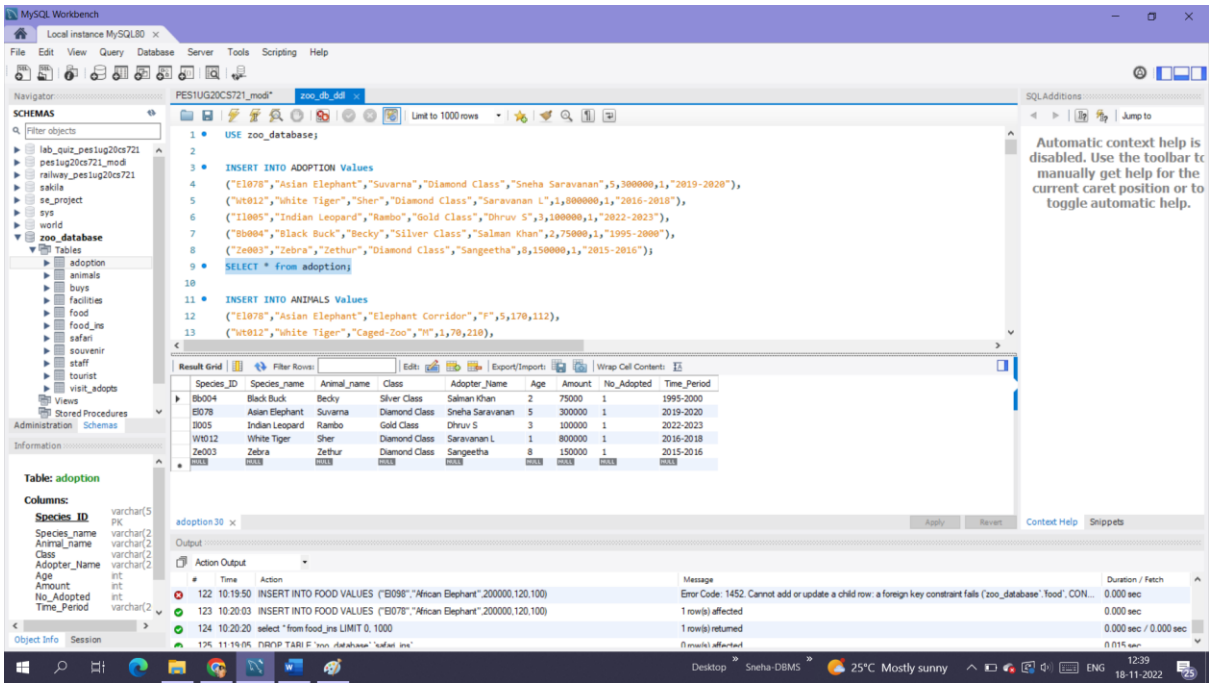


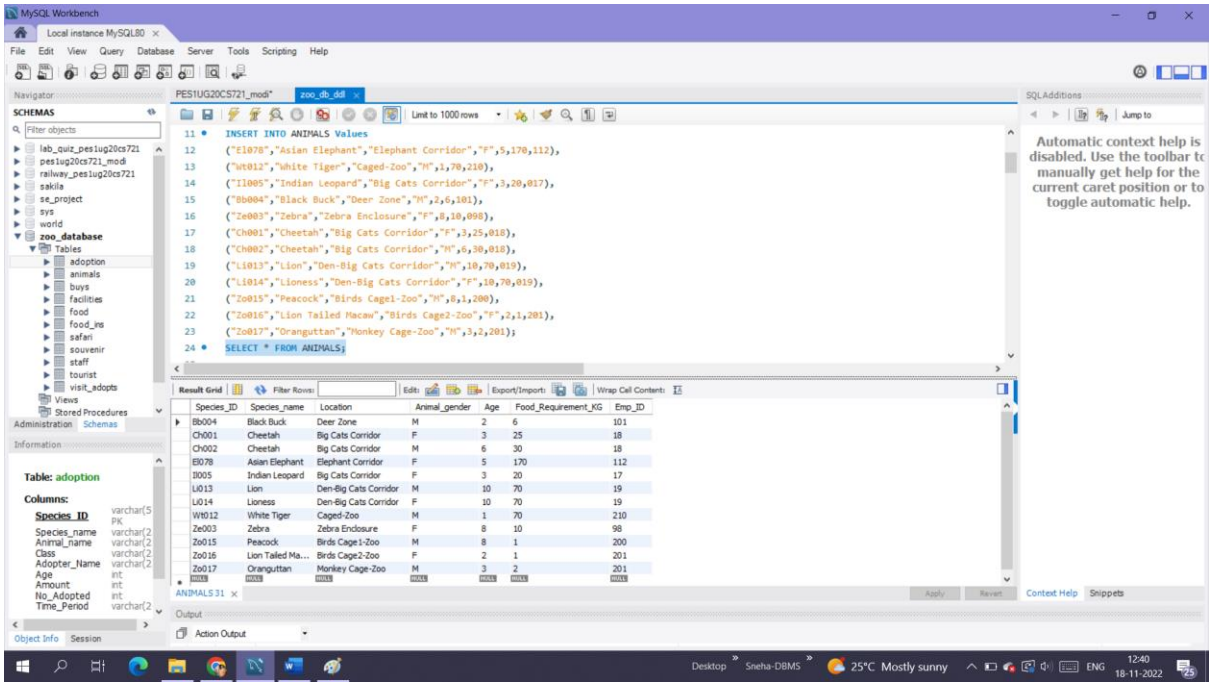
DDL

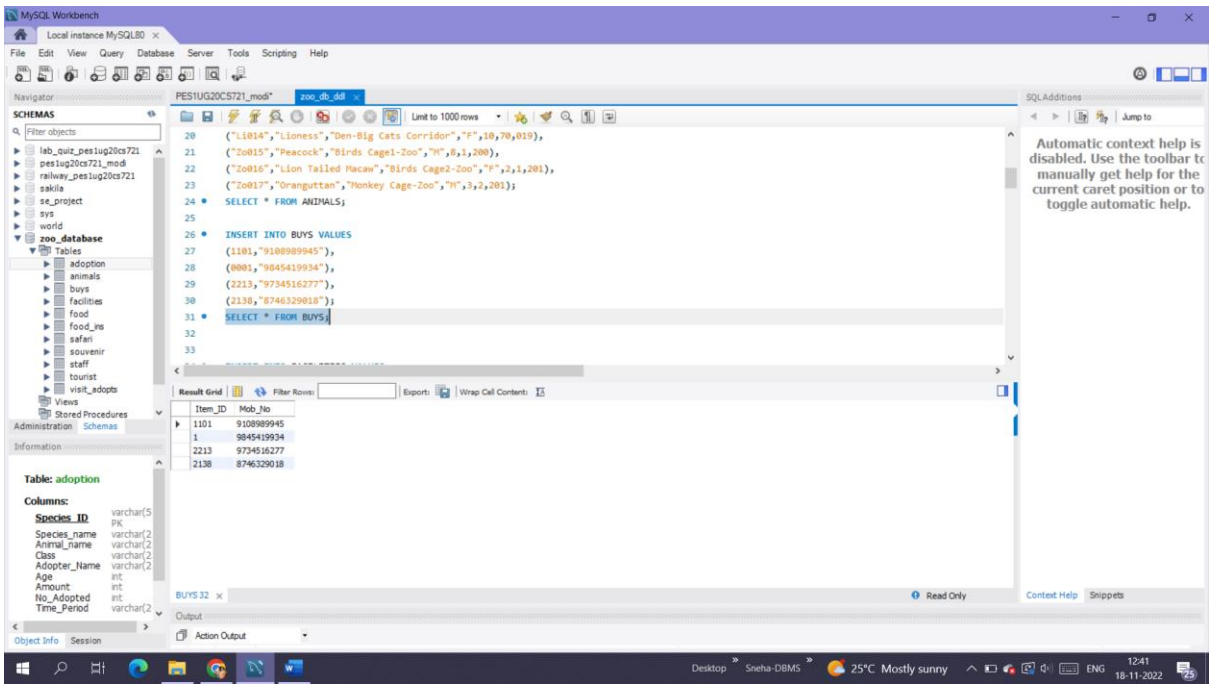

use zoo_database;
CREATE TABLE Tourist (Mob_No varchar(10) NOT NULL,
Package_Choice varchar(255),
Country Varchar(255) NOT NULL,
Tourist_Name varchar(255),
Age int,
Tcket_Price int,
Payment_Info varchar(10),
Visit_date date,
primary key(Mob_No));
CREATE TABLE Staff (Emp_ID int NOT NULL,
Emp_Name varchar(255) NOT NULL,
Work_Days int,
Work_Type varchar(255),
Age int,
DOB date,
Gender varchar(10),
primary key(Emp_ID));
CREATE TABLE Safari (Safari_ID varchar(5) NOT NULL,
Safari_name varchar(255) NOT NULL,
Animals_expected varchar(255) ,
Ticket_Price int,
Safari_hrs float,
Tariff float,
Mob_No varchar(10),
foreign key(Mob_No) references Tourist(Mob_No),
primary key(Safari_ID));
CREATE TABLE Animals (Species_ID varchar(5) NOT NULL,

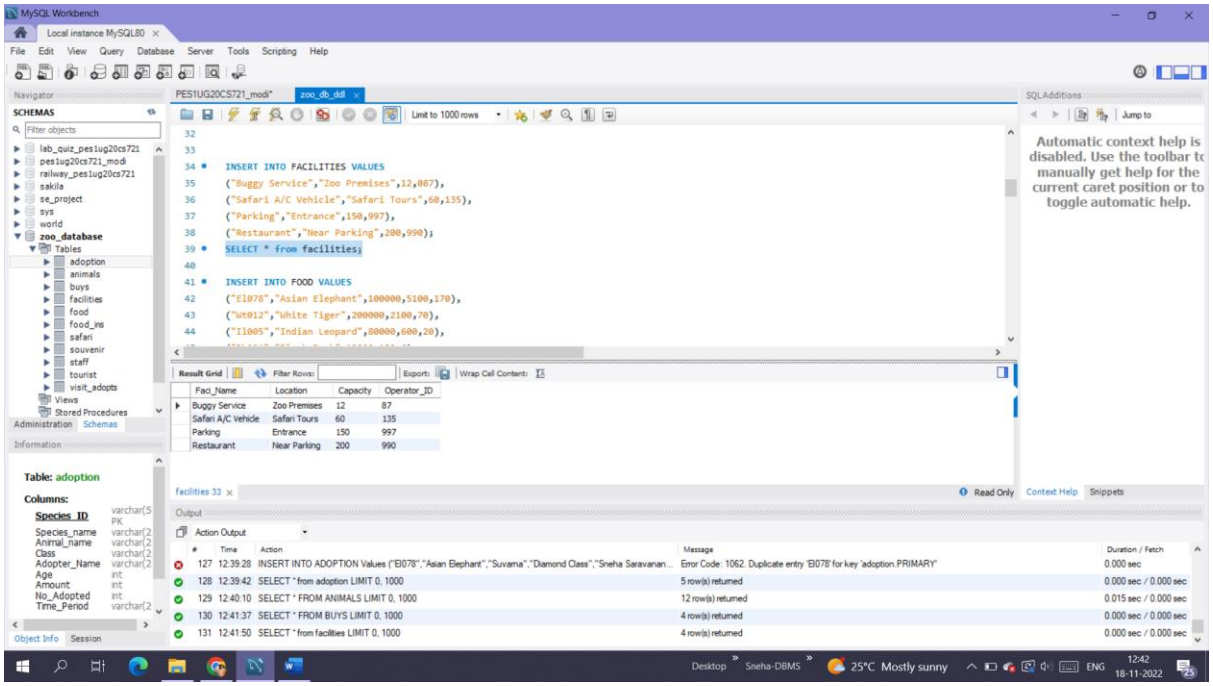

CREATE TABLE Animals (Species_ID varchar(5) NOT NULL,
Species_name varchar(255) NOT NULL,
Location varchar(255),
Animal_gender varchar(2),
Age int,
Food_Requirement_KG int,
Emp_ID int NOT NULL,
foreign key(Emp_ID) references Staff(Emp_ID),
primary key(Species_ID));
CREATE TABLE Adoption (Species_ID varchar(5) NOT NULL,
Species_name varchar(255),
Animal_name varchar(255) NOT NULL,
Class varchar(255) ,
Adopter_Name varchar(255),
Age int NOT NULL,
Amount int NOT NULL,
No_Adopted int,
Time_Period varchar(20),
primary key(Species_ID));
CREATE TABLE Food (Species_ID varchar(5) NOT NULL,
Species_name varchar(255) NOT NULL,
Cost int,
Monthly_food_procured int,
Daily_req int,
foreign key(Species_ID) references ANIMALS(Species_ID));
CREATE TABLE Souvenir (Item_ID int NOT NULL,
Item_Name varchar(255) NOT NULL,

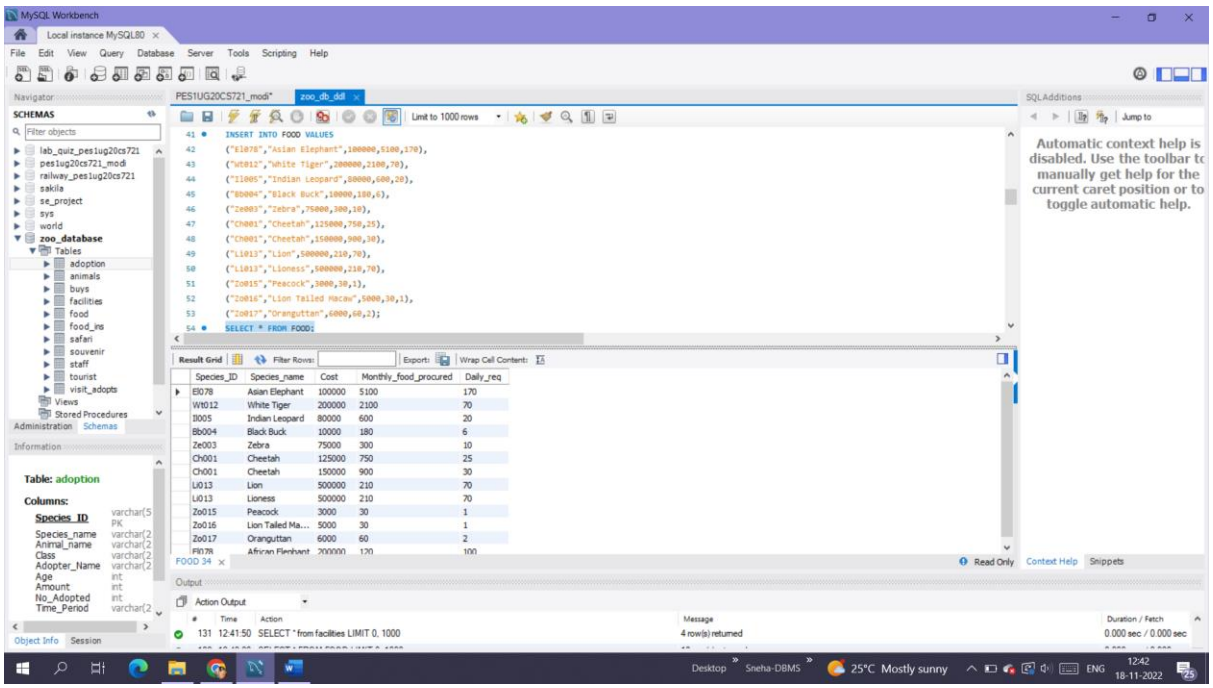

MySQL Workbench
Local instance MySQL80
File Edit View Query Database Server Tools Scripting Help
SCHEMAS
zoo_database
Tables
adoption
animals
buys
facilities
food
food_ins
safari
souvenir
staff
tourist
visit_adopts
Views
Stored Procedures
Table: adoption
Columns:
Species_ID
Species_name
Animal_name
Class
Adopter_Name
Age
Amount
No_Adopted
Time_Period
CREATE TABLE Souvenir (Item_ID int NOT NULL,
Item_Name varchar(255) NOT NULL,
Mob_No varchar(10),
Email varchar(255),
Cust_name varchar(255),
Bill_amt int,
Bill_Date date,
Discount int,
primary key(Item_ID));
CREATE TABLE Facilities (
Faci_Name varchar(255),
Location varchar(100),
Capacity int,
Operator_ID int NOT NULL,
foreign key(Operator_ID) references Staff(Emp_ID));
CREATE TABLE VISIT_ADOPTS(
Species_ID varchar(5),
Mob_No varchar(10),
Visit varchar(2),
Adopts varchar(2),
foreign key(Species_ID) references ANIMALS(Species_ID),
foreign key(Mob_No) references TOURIST(Mob_No));
CREATE TABLE BUYS(
Item_ID int,
Mob_No varchar(10),
foreign key(Item_ID) references SOUVENIR(Item_ID),
foreign key(Mob_No) references TOURIST(Mob_No));
Automatic context help is disabled. Use the toolbar to manually get help for the current caret position or to toggle automatic help.
Output
Action Output
Desktop
Sneha-DBMS
25°C Mostly sunny
ENG
12:38
18-11-2022

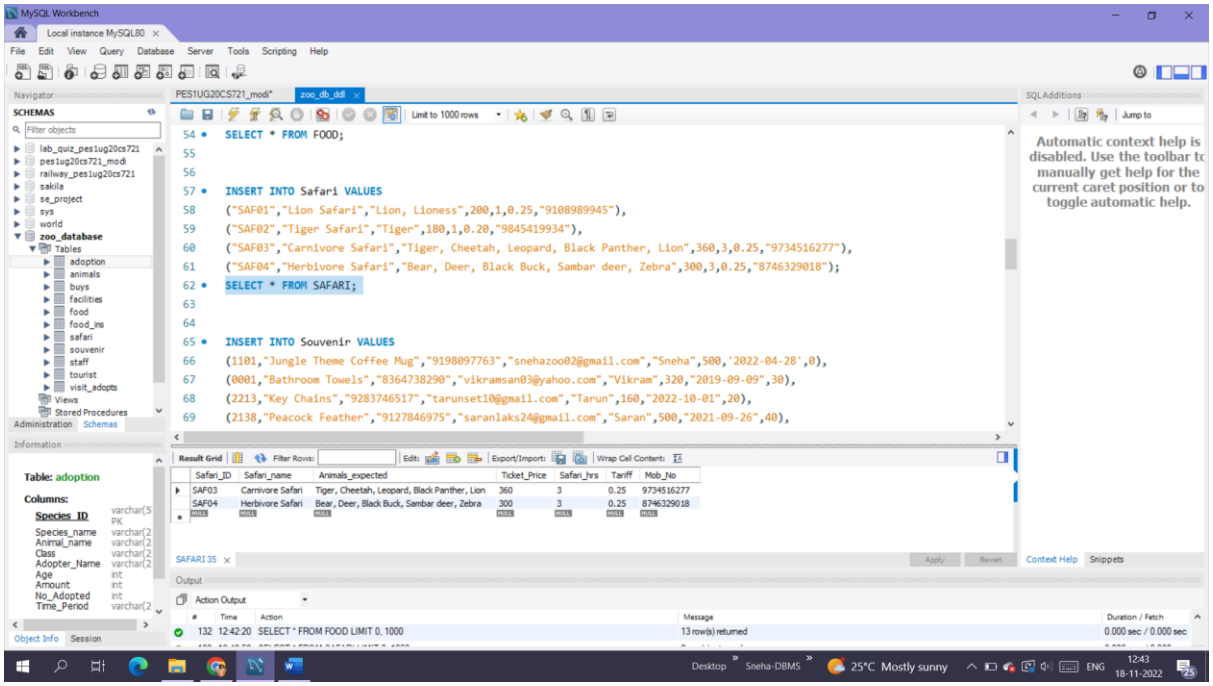

MySQL Workbench
Local instance MySQL80
File Edit View Query Database Server Tools Scripting Help
SCHEMAS
zoo_database
Tables
adoption
animals
buys
facilities
food
food_ins
safari
souvenir
staff
tourist
visit_adopts
Views
Stored Procedures
Table: adoption
Columns:
Species_ID
Species_name
Animal_name
Class
Adopter_Name
Age
Amount
No_Adopted
Time_Period
USE zoo_database;
INSERT INTO ADOPTION Values
("El078","Asian Elephant","Suvarna","Diamond Class","Sneha Saravanan",5,300000,1,"2019-2020"),
("Wt012","White Tiger","Sher","Diamond Class","Saravanan L",1,800000,1,"2016-2018"),
("Il005","Indian Leopard","Rambo","Gold Class","Dhruv S",3,100000,1,"2022-2023"),
("Bb004","Black Buck","Becky","Silver Class","Salman Khan",2,75000,1,"1995-2000"),
("Ze003","Zebra","Zethur","Diamond Class","Sangeetha",8,150000,1,"2015-2016");
SELECT * from adoption;
INSERT INTO ANIMALS Values
("El078","Asian Elephant","Elephant Corridor","F",5,170,112),
("Wt012","White Tiger","Caged-Zoo","M",1,70,210),
Species_ID Species_name Animal_name Class Adopter_Name Age Amount No_Adopted Time_Period
Bb004 Black Buck Becky Silver Class Salman Khan 2 75000 1 1995-2000
El078 Asian Elephant Suvarna Diamond Class Sneha Saravanan 5 300000 1 2019-2020
Il005 Indian Leopard Rambo Gold Class Dhruv S 3 100000 1 2022-2023
Wt012 White Tiger Sher Diamond Class Saravanan L 1 800000 1 2016-2018
Ze003 Zebra Zethur Diamond Class Sangeetha 8 150000 1 2015-2016
Automatic context help is disabled. Use the toolbar to manually get help for the current caret position or to toggle automatic help.
Output
Action Output
122 10:19:50 INSERT INTO FOOD VALUES ("El098","African Elephant",200000,120,100) Error Code: 1452. Cannot add or update a child row: a foreign key constraint fails (`zoo_database`.`food`, CON... 0.000 sec
123 10:20:03 INSERT INTO FOOD VALUES ("El078","African Elephant",200000,120,100) 1 row(s) affected 0.000 sec
124 10:20:20 select * from food_ins LIMIT 0, 1000 1 row(s) returned 0.000 sec / 0.000 sec
Desktop
Sneha-DBMS
25°C Mostly sunny
ENG
12:39
18-11-2022

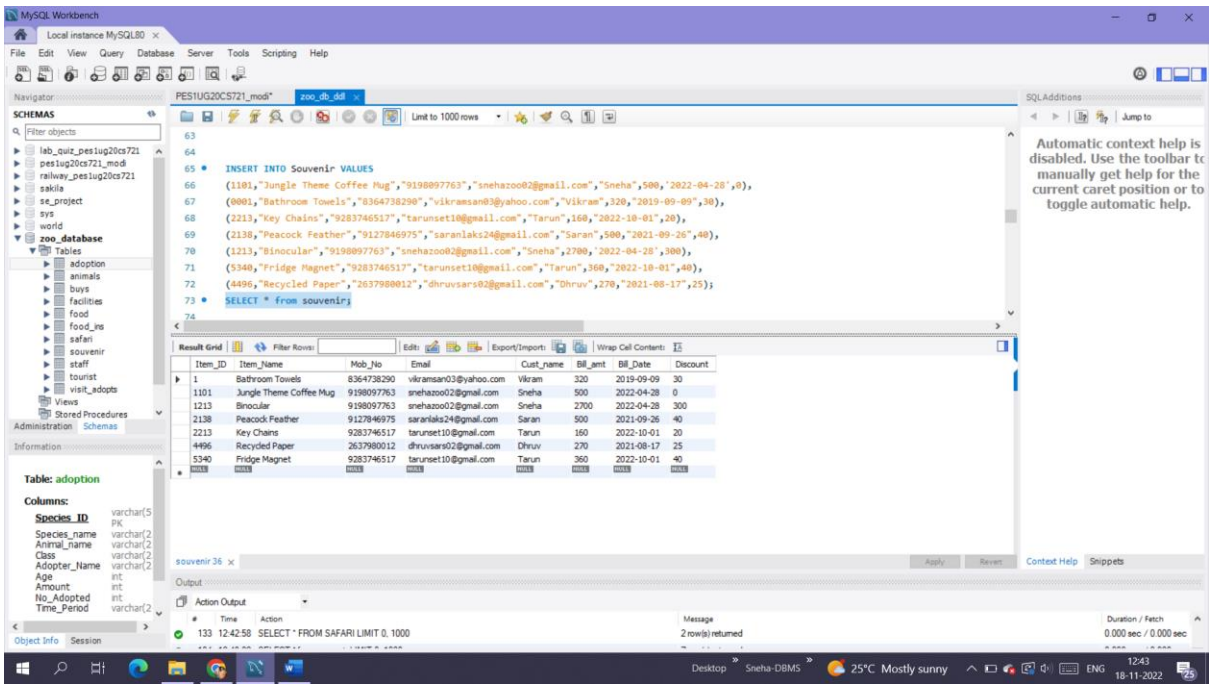

MySQL Workbench
Local instance MySQL80
File Edit View Query Database Server Tools Scripting Help
PES1UG20CS721_modi*
zoo_db_ddl
Limit to 1000 rows
SCHEMAS
zoo_database
Tables
adoption
animals
buys
facilities
food
food_ins
safari
souvenir
staff
tourist
visit_adopts
Views
Stored Procedures
Table: adoption
Columns:
Species_ID
Species_name
Animal_name
Class
Adopter_Name
Age
Amount
No_Adopted
Time_Period
SQLAdditions
Automatic context help is disabled. Use the toolbar to manually get help for the current caret position or to toggle automatic help.
Result Grid
Context Help
Snippets
Output
Action Output
Desktop
Sneha-DBMS
25°C Mostly sunny
ENG
12:40
18-11-2022

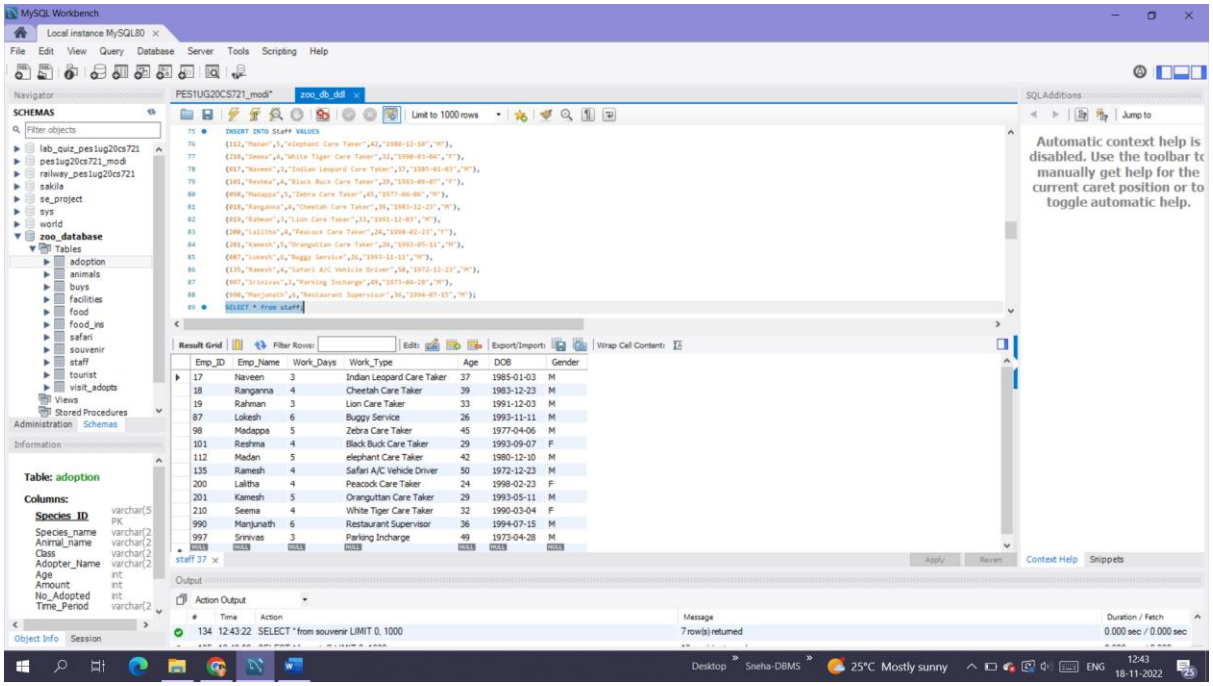

MySQL Workbench
Local instance MySQL80
File Edit View Query Database Server Tools Scripting Help
PES1UG20CS721_modi*
zoo_db_ddl
Limit to 1000 rows
SCHEMAS
zoo_database
Tables
adoption
animals
buys
facilities
food
food_ins
safari
souvenir
staff
tourist
visit_adopts
Views
Stored Procedures
Table: adoption
Columns:
Species_ID
Species_name
Animal_name
Class
Adopter_Name
Age
Amount
No_Adopted
Time_Period
SQLAdditions
Automatic context help is disabled. Use the toolbar to manually get help for the current caret position or to toggle automatic help.
Result Grid
Item_ID
Mob_No
1101
9108989945
1
9845419934
2213
9734516277
2138
8746329018
Read Only
Context Help
Snippets
Output
Action Output
Desktop
Sneha-DBMS
25°C Mostly sunny
ENG
12:41
18-11-2022

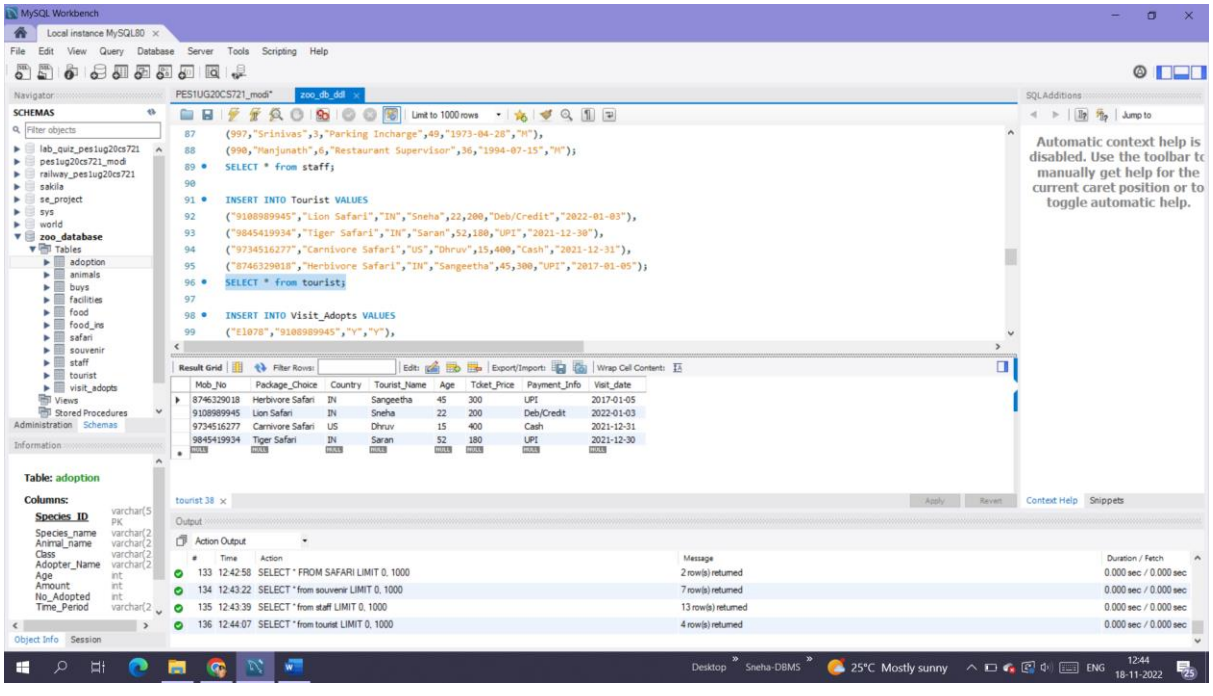

MySQL Workbench
Local instance MySQL80
File Edit View Query Database Server Tools Scripting Help
SCHEMAS
zoo_database
Tables
adoption
animals
buys
facilities
food
food_ins
safari
souvenir
staff
tourist
visit_adopts
Views
Stored Procedures
Table: adoption
Columns:
Species_ID
Species_name
Animal_name
Class
Adopter_Name
Age
Amount
No_Adopted
Time_Period
INSERT INTO FACILITIES VALUES
("Buggy Service","Zoo Premises",12,87),
("Safari A/C Vehicle","Safari Tours",60,135),
("Parking","Entrance",150,997),
("Restaurant","Near Parking",200,990);
SELECT * from facilities;
INSERT INTO FOOD VALUES
("El078","Asian Elephant",100000,5100,170),
("Wt012","White Tiger",200000,2100,70),
("Il005","Indian Leopard",80000,600,20),
Faci_Name Location Capacity Operator_ID
Buggy Service Zoo Premises 12 87
Safari A/C Vehicle Safari Tours 60 135
Parking Entrance 150 997
Restaurant Near Parking 200 990
Automatic context help is disabled. Use the toolbar to manually get help for the current caret position or to toggle automatic help.
Action Output
127 12:39:28 INSERT INTO ADOPTION Values ("El078","Asian Elephant","Suvarna","Diamond Class","Sneha Saravanan... Error Code: 1062. Duplicate entry 'El078' for key 'adoption.PRIMARY'
128 12:39:42 SELECT * from adoption LIMIT 0, 1000 5 row(s) returned
129 12:40:10 SELECT * FROM ANIMALS LIMIT 0, 1000 12 row(s) returned
130 12:41:37 SELECT * FROM BUYS LIMIT 0, 1000 4 row(s) returned
131 12:41:50 SELECT * from facilities LIMIT 0, 1000 4 row(s) returned
Desktop Sneha-DBMS 25°C Mostly sunny ENG 12:42 18-11-2022

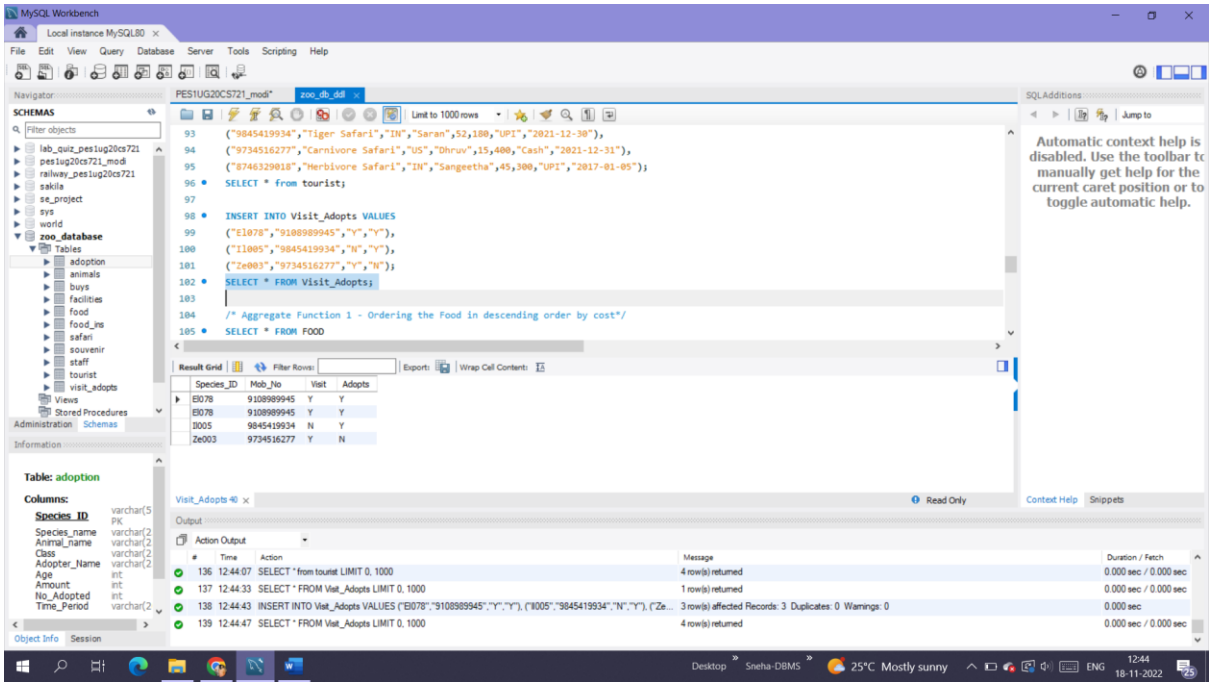

MySQL Workbench
Local instance MySQL80
File Edit View Query Database Server Tools Scripting Help
SCHEMAS
zoo_database
Tables
adoption
animals
buys
facilities
food
food_ins
safari
souvenir
staff
tourist
visit_adopts
Views
Stored Procedures
Table: adoption
Columns:
Species_ID
Species_name
Animal_name
Class
Adopter_Name
Age
Amount
No_Adopted
Time_Period
INSERT INTO FOOD VALUES
("El078","Asian Elephant",100000,5100,170),
("Wt012","White Tiger",200000,2100,70),
("Il005","Indian Leopard",80000,600,20),
("Bb004","Black Buck",10000,180,6),
("Ze003","Zebra",75000,300,10),
("Ch001","Cheetah",125000,750,25),
("Ch001","Cheetah",150000,900,30),
("Li013","Lion",500000,210,70),
("Li013","Lioness",500000,210,70),
("Zo015","Peacock",3000,30,1),
("Zo016","Lion Tailed Macaw",5000,30,1),
("Zo017","Oranguttan",6000,60,2);
SELECT * FROM FOOD;
Species_ID Species_name Cost Monthly_food_procured Daily_req
El078 Asian Elephant 100000 5100 170
Wt012 White Tiger 200000 2100 70
Il005 Indian Leopard 80000 600 20
Bb004 Black Buck 10000 180 6
Ze003 Zebra 75000 300 10
Ch001 Cheetah 125000 750 25
Ch001 Cheetah 150000 900 30
Li013 Lion 500000 210 70
Li013 Lioness 500000 210 70
Zo015 Peacock 3000 30 1
Zo016 Lion Tailed Ma... 5000 30 1
Zo017 Oranguttan 6000 60 2
Automatic context help is disabled. Use the toolbar to manually get help for the current caret position or to toggle automatic help.
Action Output
131 12:41:50 SELECT * from facilities LIMIT 0, 1000 4 row(s) returned
Desktop Sneha-DBMS 25°C Mostly sunny ENG 12:42 18-11-2022


MySQL Workbench
Local instance MySQL80
File Edit View Query Database Server Tools Scripting Help
SCHEMAS
zoo_database
Tables
adoption
animals
buys
facilities
food
food_ins
safari
souvenir
staff
tourist
visit_adopts
Views
Stored Procedures
Table: adoption
Columns:
Species_ID
Species_name
Animal_name
Class
Adopter_Name
Age
Amount
No_Adopted
Time_Period
SELECT * FROM FOOD;
INSERT INTO Safari VALUES
("SAF01","Lion Safari","Lion, Lioness",200,1,0.25,"9108989945"),
("SAF02","Tiger Safari","Tiger",180,1,0.20,"9845419934"),
("SAF03","Carnivore Safari","Tiger, Cheetah, Leopard, Black Panther, Lion",360,3,0.25,"9734516277"),
("SAF04","Herbivore Safari","Bear, Deer, Black Buck, Sambar deer, Zebra",300,3,0.25,"8746329018");
SELECT * FROM SAFARI;
INSERT INTO Souvenir VALUES
(1101,"Jungle Theme Coffee Mug","9198097763","snehazoo02@gmail.com","Sneha",500,'2022-04-28',0),
(0001,"Bathroom Towels","8364738290","vikramsan03@yahoo.com","Vikram",320,"2019-09-09",30),
(2213,"Key Chains","9283746517","tarunset10@gmail.com","Tarun",160,"2022-10-01",20),
(2138,"Peacock Feather","9127846975","saranlaks24@gmail.com","Saran",500,"2021-09-26",40),
Result Grid
Safari_ID Safari_name Animals_expected Ticket_Price Safari_hrs Tariff Mob_No
SAF03 Carnivore Safari Tiger, Cheetah, Leopard, Black Panther, Lion 360 3 0.25 9734516277
SAF04 Herbivore Safari Bear, Deer, Black Buck, Sambar deer, Zebra 300 3 0.25 8746329018
Output
Action Output
132 12:42:20 SELECT * FROM FOOD LIMIT 0, 1000 13 row(s) returned 0.000 sec / 0.000 sec
Automatic context help is disabled. Use the toolbar to manually get help for the current caret position or to toggle automatic help.
Desktop Sneha-DBMS 25°C Mostly sunny ENG 12:43 18-11-2022


MySQL Workbench
Local instance MySQL80
File Edit View Query Database Server Tools Scripting Help
SCHEMAS
zoo_database
Tables
adoption
animals
buys
facilities
food
food_ins
safari
souvenir
staff
tourist
visit_adopts
Views
Stored Procedures
Table: adoption
Columns:
Species_ID
Species_name
Animal_name
Class
Adopter_Name
Age
Amount
No_Adopted
Time_Period
INSERT INTO Souvenir VALUES
(1101,"Jungle Theme Coffee Mug","9198097763","snehazoo02@gmail.com","Sneha",500,'2022-04-28',0),
(0001,"Bathroom Towels","8364738290","vikramsan03@yahoo.com","Vikram",320,"2019-09-09",30),
(2213,"Key Chains","9283746517","tarunset10@gmail.com","Tarun",160,"2022-10-01",20),
(2138,"Peacock Feather","9127846975","saranlaks24@gmail.com","Saran",500,"2021-09-26",40),
(1213,"Binocular","9198097763","snehazoo02@gmail.com","Sneha",2700,'2022-04-28',300),
(5340,"Fridge Magnet","9283746517","tarunset10@gmail.com","Tarun",360,"2022-10-01",40),
(4496,"Recycled Paper","2637980012","dhruvsars02@gmail.com","Dhruv",270,"2021-08-17",25);
SELECT * from souvenir;
Result Grid
Item_ID Item_Name Mob_No Email Cust_name Bill_amt Bill_Date Discount
1 Bathroom Towels 8364738290 vikramsan03@yahoo.com Vikram 320 2019-09-09 30
1101 Jungle Theme Coffee Mug 9198097763 snehazoo02@gmail.com Sneha 500 2022-04-28 0
1213 Binocular 9198097763 snehazoo02@gmail.com Sneha 2700 2022-04-28 300
2138 Peacock Feather 9127846975 saranlaks24@gmail.com Saran 500 2021-09-26 40
2213 Key Chains 9283746517 tarunset10@gmail.com Tarun 160 2022-10-01 20
4496 Recycled Paper 2637980012 dhruvsars02@gmail.com Dhruv 270 2021-08-17 25
5340 Fridge Magnet 9283746517 tarunset10@gmail.com Tarun 360 2022-10-01 40
Output
Action Output
133 12:42:58 SELECT * FROM SAFARI LIMIT 0, 1000 2 row(s) returned 0.000 sec / 0.000 sec
Automatic context help is disabled. Use the toolbar to manually get help for the current caret position or to toggle automatic help.
Desktop Sneha-DBMS 25°C Mostly sunny ENG 12:43 18-11-2022

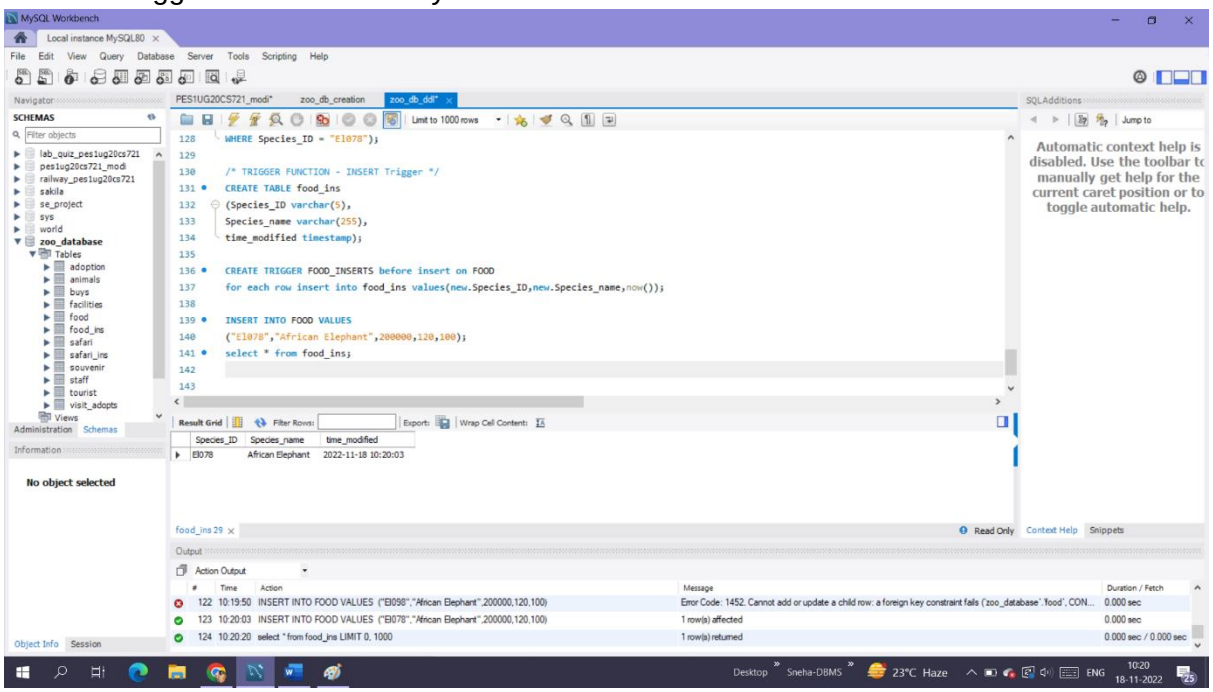

MySQL Workbench
SELECT * from staff;
Result Grid
Emp_ID Emp_Name Work_Days Work_Type Age DOB Gender
17 Naveen 3 Indian Leopard Care Taker 37 1985-01-03 M
18 Ranganna 4 Cheetah Care Taker 39 1983-12-23 M
19 Rahman 3 Lion Care Taker 33 1991-12-03 M
87 Lokesh 6 Buggy Service 26 1993-11-11 M
98 Madappa 5 Zebra Care Taker 45 1977-04-06 M
101 Reshma 4 Black Buck Care Taker 29 1993-09-07 F
112 Madan 5 elephant Care Taker 42 1980-12-10 M
135 Ramesh 4 Safari A/C Vehicle Driver 50 1972-12-23 M
200 Lalitha 4 Peacock Care Taker 24 1998-02-23 F
201 Kamesh 5 Oranguttan Care Taker 29 1993-05-11 M
210 Seema 4 White Tiger Care Taker 32 1990-03-04 F
990 Manjunath 6 Restaurant Supervisor 36 1994-07-15 M
997 Srinivas 3 Parking Incharge 49 1973-04-28 M
Table: adoption
Columns:
Species_ID
Species_name
Animal_name
Class
Adopter_Name
Age
Amount
No_Adopted
Time_Period
Action Output
134 12:43:22 SELECT * from souvenir LIMIT 0, 1000
7 row(s) returned
0.000 sec / 0.000 sec


MySQL Workbench
SELECT * from staff;
INSERT INTO Tourist VALUES
("9108989945","Lion Safari","IN","Sneha",22,200,"Deb/Credit","2022-01-03"),
("9845419934","Tiger Safari","IN","Saran",52,180,"UPI","2021-12-30"),
("9734516277","Carnivore Safari","US","Dhruv",15,400,"Cash","2021-12-31"),
("8746329018","Herbivore Safari","IN","Sangeetha",45,300,"UPI","2017-01-05");
SELECT * from tourist;
INSERT INTO Visit_Adopts VALUES
("E1078","9108989945","Y","Y"),
Result Grid
Mob_No Package_Choice Country Tourist_Name Age Ticket_Price Payment_Info Visit_date
8746329018 Herbivore Safari IN Sangeetha 45 300 UPI 2017-01-05
9108989945 Lion Safari IN Sneha 22 200 Deb/Credit 2022-01-03
9734516277 Carnivore Safari US Dhruv 15 400 Cash 2021-12-31
9845419934 Tiger Safari IN Saran 52 180 UPI 2021-12-30
Table: adoption
Columns:
Species_ID
Species_name
Animal_name
Class
Adopter_Name
Age
Amount
No_Adopted
Time_Period
Action Output
133 12:42:58 SELECT * FROM SAFARI LIMIT 0, 1000
2 row(s) returned
0.000 sec / 0.000 sec
134 12:43:22 SELECT * from souvenir LIMIT 0, 1000
7 row(s) returned
0.000 sec / 0.000 sec
135 12:43:39 SELECT * from staff LIMIT 0, 1000
13 row(s) returned
0.000 sec / 0.000 sec
136 12:44:07 SELECT * from tourist LIMIT 0, 1000
4 row(s) returned
0.000 sec / 0.000 sec



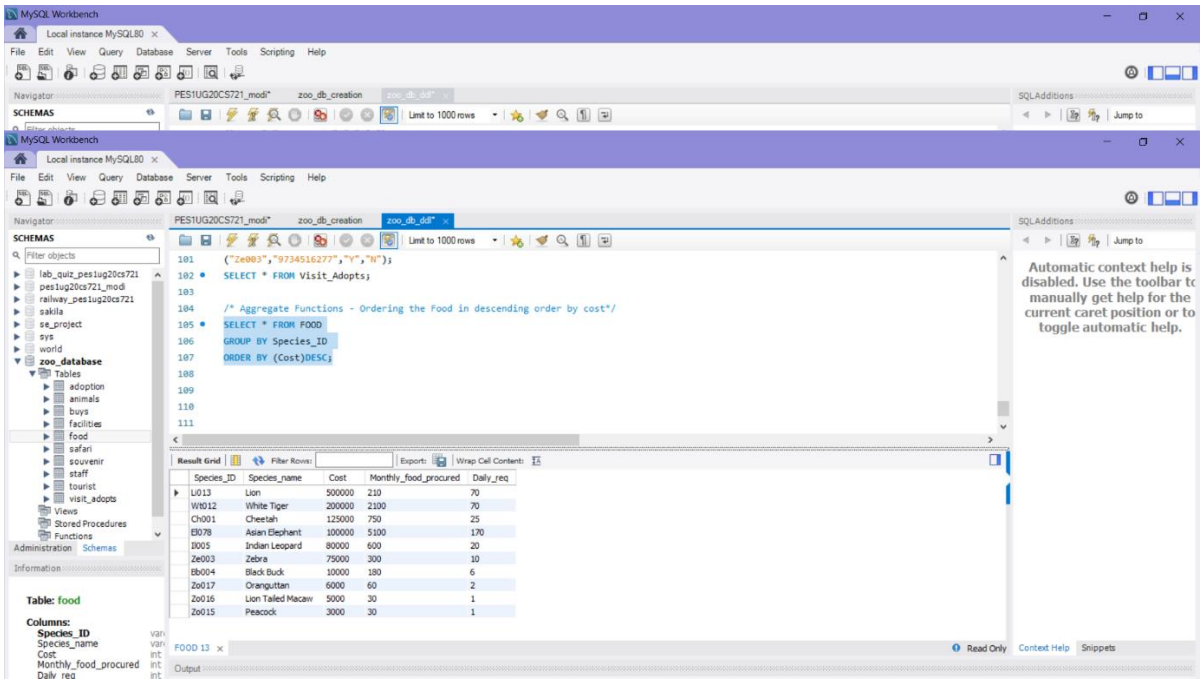
Triggers

An insert trigger for the food entity.

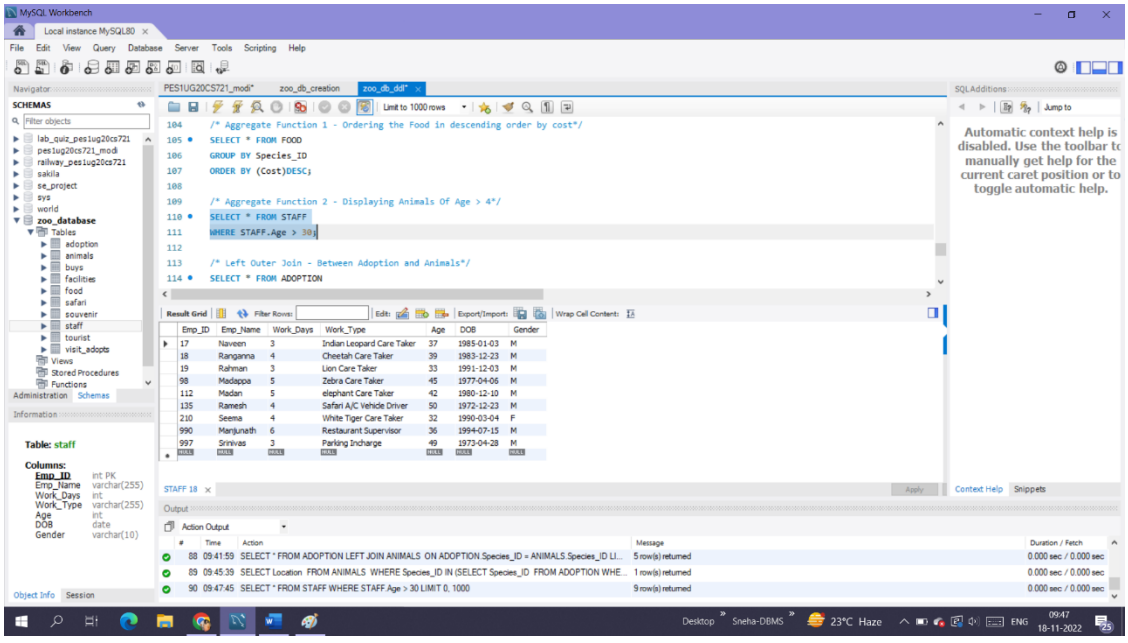


SQL Queries – Aggregate

1. Order the tuples in FOOD table in descending order of the monthly food cost.

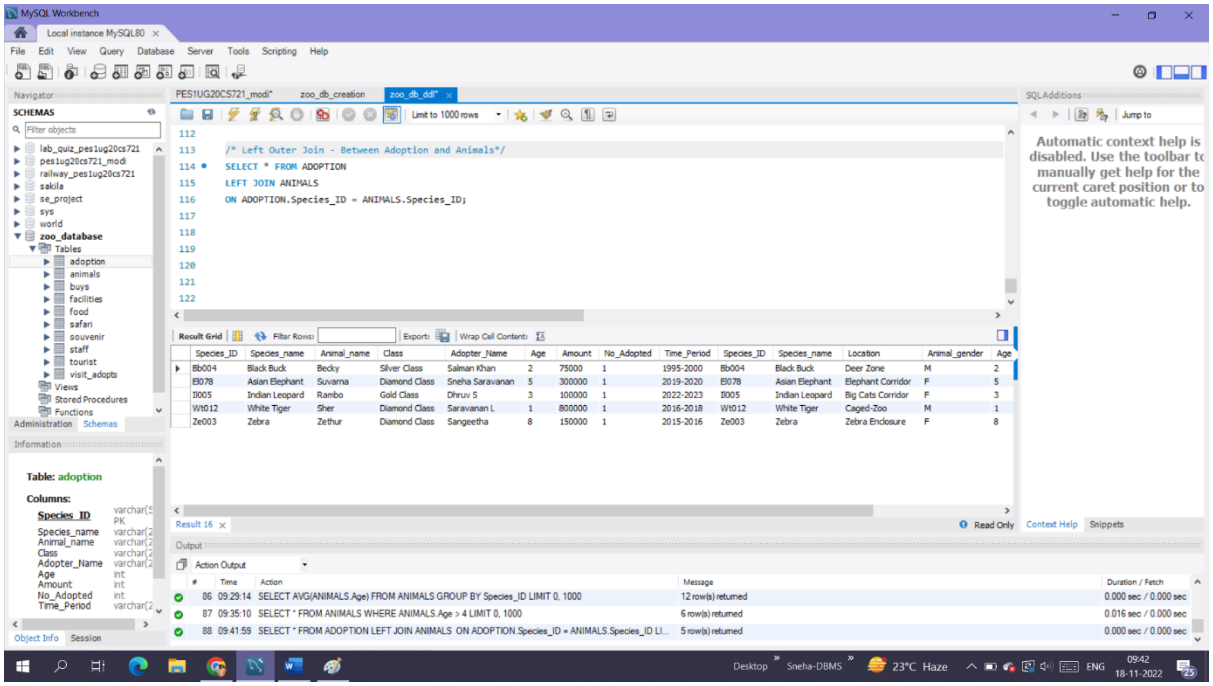


2. Select the details of the staff that are aged more than 30 years from the STAFF

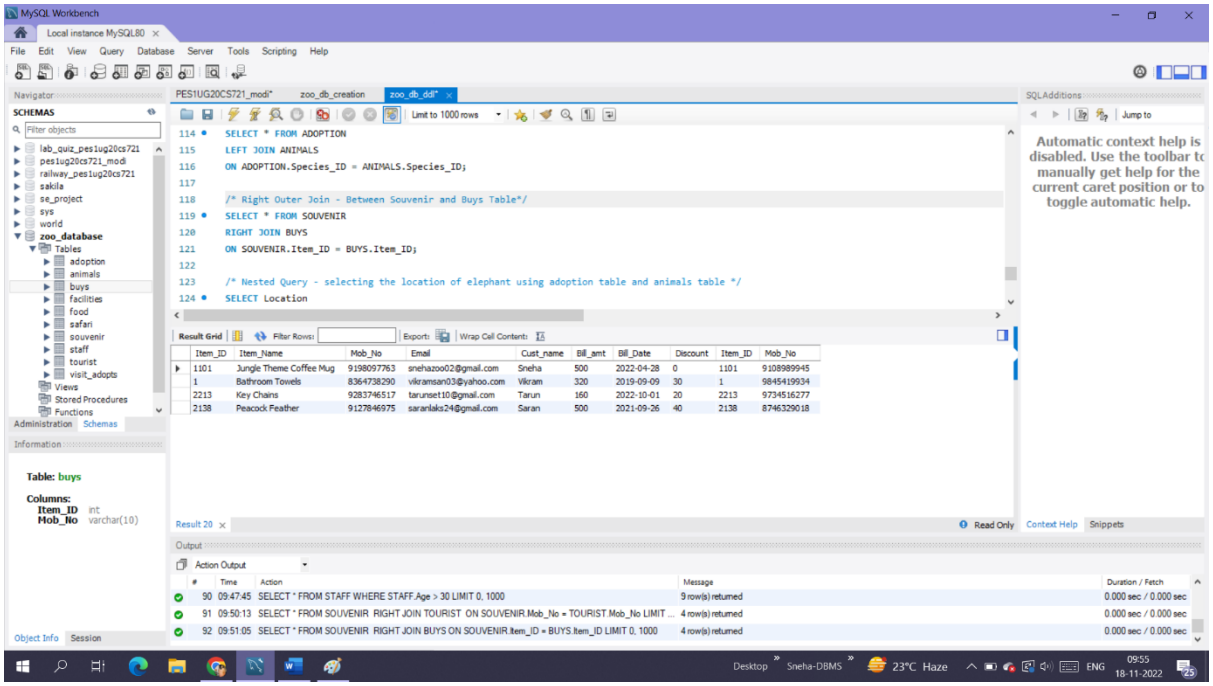


SQL Queries – JOIN

1. Left Outer Join between Animals and Adoption

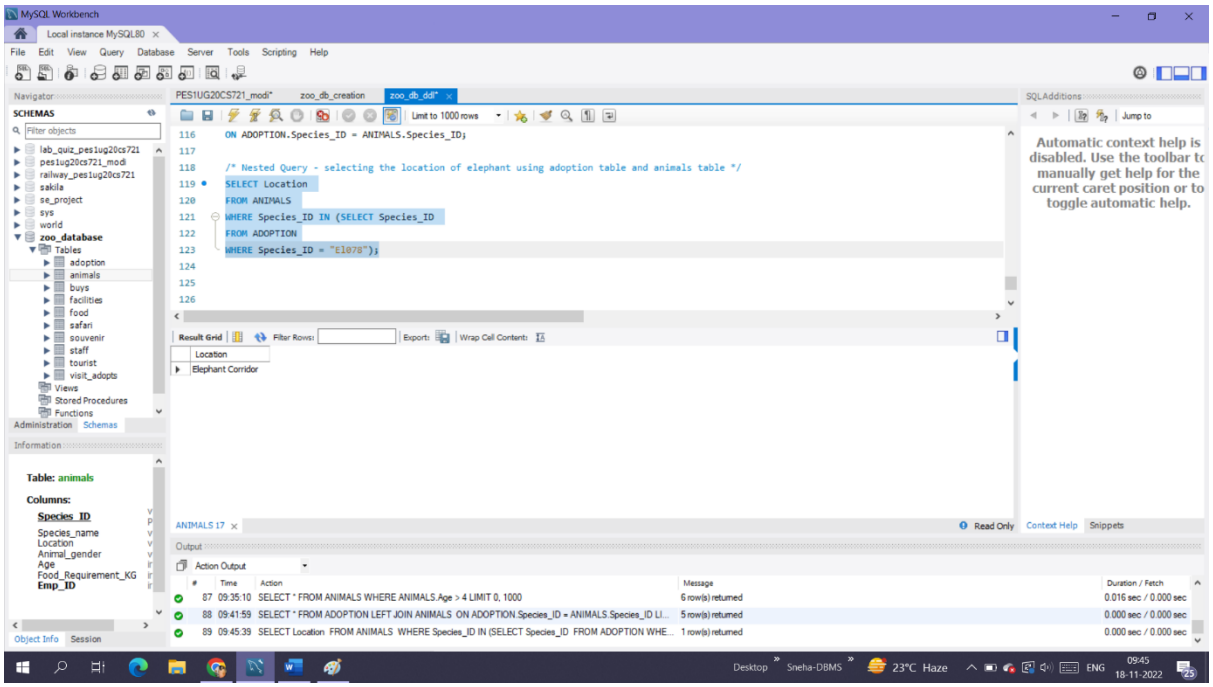


2. Right outer Join between Souvenir and Buys

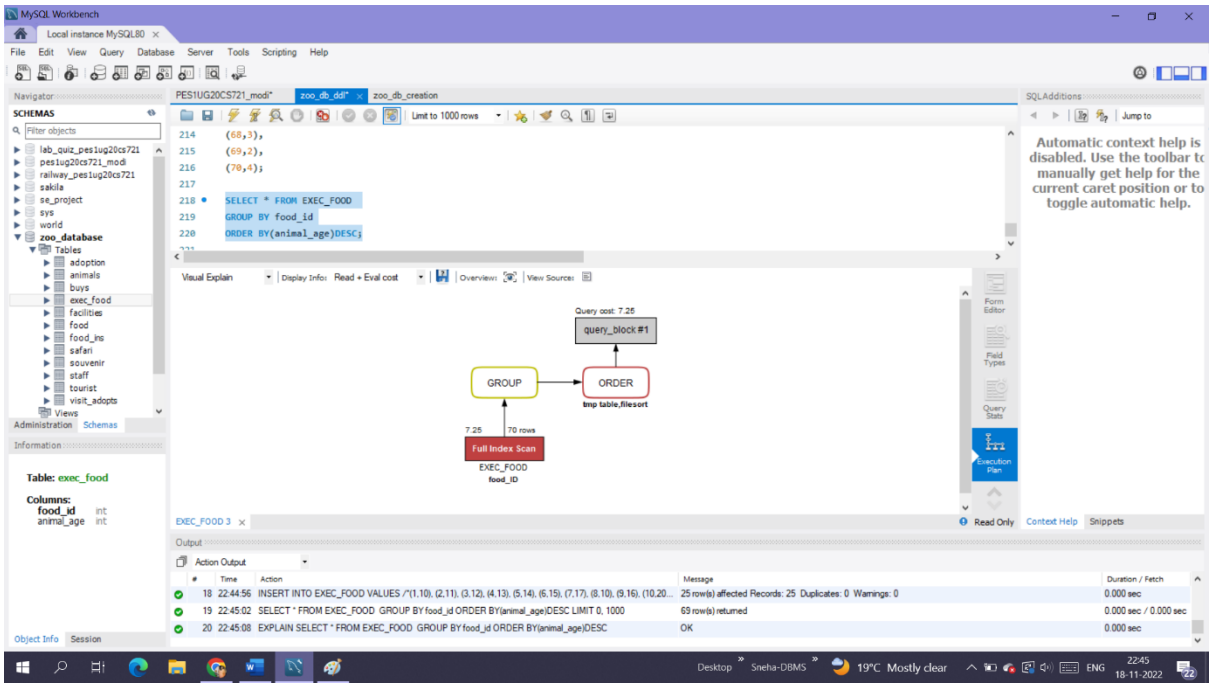


SQL Queries – Nested Query

Fetching the Location of the Animal being adopted .



Execution Plan before and after



After Indexing