The list of SQL codes :-

```
-- Employee Table
    CREATE TABLE Employee (
    ID INT PRIMARY KEY,
    StartDate DATE,
    JobType VARCHAR(255),
    First VARCHAR(255),
    Mini CHAR(1),
    Last VARCHAR(255),
    Street VARCHAR(255),
    City VARCHAR(255),
    State VARCHAR(255),
    Zip VARCHAR(10),
    e_id INT,
    SupervisorID INT,
    HoursWorkedPerWeek INT DEFAULT 40,
    FOREIGN KEY (SupervisorID) REFERENCES Employee(ID),
    FOREIGN KEY (e_id) REFERENCES HourlyRate(ID)
);

-- HourlyRate, Species, Animal, Building, RevenueTypes, ZooAdmission,
-- Concession, AnimalShow, RevenueEvents, Enclosure tables are the same as in the second code.
CREATE TABLE HourlyRate (
    ID INT PRIMARY KEY,
    Rate DECIMAL(10, 2)
);

-- Species Table
CREATE TABLE Species (
    SpeciesID INT PRIMARY KEY,
    Name VARCHAR(255),
    FoodCost DECIMAL(10, 2)
);

-- Animal Table
CREATE TABLE Animal (
    AID INT PRIMARY KEY,
```

```
    Status VARCHAR(255),
    BirthYear INT,
    FoodCost DECIMAL(10, 2),
    SpeciesID  INT,
    BuildingID  INT,
    FOREIGN KEY
    (SpeciesID)
    REFERENCES
    Species(SpeciesID),
    FOREIGN KEY (BuildingID) REFERENCES Building(BuildingID)
);

-- Building Table
CREATE TABLE Building (
    BuildingID INT PRIMARY KEY,
    Name VARCHAR(255),
    Type VARCHAR(255)
);

-- RevenueTypes Table
CREATE TABLE RevenueTypes (
    RevenueID INT PRIMARY KEY,
    Name VARCHAR(255),
    Type VARCHAR(255),
    BuildingID INT,
    FOREIGN KEY (BuildingID) REFERENCES Building(BuildingID)
);

-- ZooAdmission Table
CREATE TABLE ZooAdmission (
    RevenueID INT,
    SeniorPrice DECIMAL(10, 2),
    AdultPrice DECIMAL(10, 2),
    KidsPrice DECIMAL(10, 2),
    PRIMARY KEY (RevenueID),
    FOREIGN KEY (RevenueID) REFERENCES RevenueTypes(RevenueID)
);

-- Concession Table
CREATE TABLE Concession (
    RevenueID INT,
```

```
    Product VARCHAR(255),
    PRIMARY KEY (RevenueID),
    FOREIGN KEY (RevenueID) REFERENCES RevenueTypes(RevenueID)
);


-- ParticipatesIn (Associative Table between Species and RevenueTypes)
CREATE TABLE ParticipatesIn (
    SpeciesID INT,
    RevenueID INT,
    PRIMARY KEY (SpeciesID, RevenueID),
    FOREIGN KEY (SpeciesID) REFERENCES Species(SpeciesID),
    FOREIGN KEY (RevenueID) REFERENCES RevenueTypes(RevenueID)
);

-- AnimalShow Table
CREATE TABLE AnimalShow (
    RevenueID INT,
    SeniorPrice DECIMAL(10, 2),
    AdultPrice DECIMAL(10, 2),
    KidsPrice DECIMAL(10, 2),
    ShowsPerDay INT,
    PRIMARY KEY (RevenueID),
    FOREIGN KEY (RevenueID) REFERENCES RevenueTypes(RevenueID)
);

-- RevenueEvents Table
CREATE TABLE RevenueEvents (
    Date_Time DATETIME,
    Revenue DECIMAL(10, 2),
    TicketsSold INT,
    RevenueID INT,
    PRIMARY KEY (Date_Time),
    FOREIGN KEY (RevenueID) REFERENCES RevenueTypes(RevenueID)
);

-- Enclosure Table
CREATE TABLE Enclosure (
    BuildingID INT,
    SqFt DECIMAL(10, 2),
    EnclosureID INT PRIMARY KEY,
```

```
    FOREIGN KEY (BuildingID) REFERENCES Building(BuildingID)
);



-- Veterinarian Table (inherits from Employee)
CREATE TABLE Veterinarian (
    EmployeeID INT PRIMARY KEY,
    LicenseNumber VARCHAR(255),
    FOREIGN KEY (EmployeeID) REFERENCES Employee(ID)
);

-- AnimalCareSpecialist Table (inherits from Employee)
CREATE TABLE AnimalCareSpecialist (
    EmployeeID INT PRIMARY KEY,
    Certification VARCHAR(255),
    FOREIGN KEY (EmployeeID) REFERENCES Employee(ID)
);

-- Maintenance Table (inherits from Employee)
CREATE TABLE Maintenance (
    EmployeeID INT PRIMARY KEY,
    FOREIGN KEY (EmployeeID) REFERENCES Employee(ID)
);

-- CustomerService Table (inherits from Employee)
CREATE TABLE CustomerService (
    EmployeeID INT PRIMARY KEY,
    FOREIGN KEY (EmployeeID) REFERENCES Employee(ID)
);

-- TicketSeller Table (inherits from Employee)
CREATE TABLE TicketSeller (
    EmployeeID INT PRIMARY KEY,
    BoothNumber INT,
    FOREIGN KEY (EmployeeID) REFERENCES Employee(ID)
);

-- Associative table for Animal and Veterinarian
CREATE TABLE VeterinarianAnimal (
    VeterinarianID INT,
```

```
    AnimalID INT,
    PRIMARY KEY (VeterinarianID, AnimalID),
    FOREIGN KEY (VeterinarianID) REFERENCES Veterinarian(EmployeeID),
    FOREIGN KEY (AnimalID) REFERENCES Animal(AID)
);

-- Associative table for Animal and AnimalCareSpecialist
CREATE TABLE AnimalCareSpecialistAnimal (
    AnimalCareSpecialistID INT,
    AnimalID INT,
    PRIMARY KEY (AnimalCareSpecialistID, AnimalID),
    FOREIGN KEY (AnimalCareSpecialistID) REFERENCES
AnimalCareSpecialist(EmployeeID),
    FOREIGN KEY (AnimalID) REFERENCES Animal(AID)
);

-- CaresFor and ParticipatesIn tables are the same as in the second code.
-- Additional modification to the RevenueEvents table
ALTER TABLE RevenueEvents ADD EventDate DATE;
UPDATE RevenueEvents SET EventDate = DATE(Date_Time);

-- Attendance Table
CREATE TABLE Attendance (
    EventDate DATE,
    AttendeeType VARCHAR(255),
    NumberAttendees INT,
    Revenue DECIMAL(10, 2),
    PRIMARY KEY (EventDate, AttendeeType)
);
```

```
INSERT INTO Employee (ID, StartDate, JobType, First, Mini, Last,
Street, City, State, Zip, e_id, SupervisorID)
VALUES
  (1, '2020-01-15', 'Manager', 'John', 'M', 'Doe', '123 Main St',
'Cityville', 'CA', '12345', 1, NULL),
  (2, '2019-05-20', 'Zookeeper', 'Jane', 'A', 'Smith', '456 Oak
  St',
```

```
'Townsville', 'NY', '67890', 2, 1),
  (3, '2021-03-10', 'Veterinarian', 'Robert', 'J', 'Johnson', '789
Pine St', 'Villageton', 'TX', '23456', 3, 1),
  (4, '2018-08-05', 'Animal Care Specialist', 'Emily', 'R',
'Williams', '101 Cedar St', 'Hamletville', 'FL', '34567', 4, 2),
  (5, '2022-02-28', 'Maintenance', 'Michael', 'S', 'Davis', '202
  Elm
St', 'Cityburg', 'IL', '45678', 5, NULL),
  (6, '2020-11-15', 'Animal Care Specialist', 'Sophia', 'L',
  'Jones',
'303 Birch St', 'Villageburg', 'OH', '56789', 1, 2),
  (7, '2017-07-01', 'Maintenance', 'William', 'H', 'Clark', '404
Maple St', 'Townton', 'WA', '67891', 2, NULL),
  (8, '2019-12-10', 'Maintenance', 'Olivia', 'K', 'Miller', '505
  Pine
St', 'Citytown', 'CA', '78901', 3, NULL),
  (9, '2020-09-22', 'Maintenance', 'James', 'P', 'Brown', '606 Oak
St', 'Villeburg', 'NY', '89012', 4, NULL),
  (10, '2018-04-18', 'Customer Service', 'Emma', 'N', 'Wilson',
  '707
Cedar St', 'Villageville', 'TX', '90123', 5, 1),
  (11, '2022-06-30', 'Ticket Seller', 'Daniel', 'E', 'White', '808
Elm St', 'Hamletville', 'FL', '12345', 1, 1),
  (12, '2019-10-05', 'Customer Service', 'Ava', 'F', 'Taylor', '909
Birch St', 'Cityville', 'IL', '23456', 2, 1),
  (13, '2021-01-08', 'Ticket Seller', 'Logan', 'C', 'Anderson',
  '121
Main St', 'Townsville', 'WA', '34567', 3, 11),
  (14, '2017-03-25', 'Ticket Seller', 'Grace', 'B', 'Harris', '232
Oak St', 'Villageton', 'OH', '45678', 4, 11),
  (15, '2022-08-14', 'Ticket Seller', 'Jackson', 'W', 'Martin',
  '343
Pine St', 'Villageburg', 'CA', '56789', 5, 11);


-- HourlyRate
INSERT INTO HourlyRate (ID, Rate) VALUES
(1, 20.00), (2, 22.00), (3, 25.00), (4, 18.50), (5, 30.00);
```

```
-- Species
INSERT INTO Species (SpeciesID, Name, FoodCost) VALUES
(1, 'Lion', 50.00), (2, 'Tiger', 45.00), (3, 'Elephant', 60.00), (4, 'Giraffe', 40.00), (5, 'Penguin', 30.00);

-- Animal
INSERT INTO Animal (AID, Status, BirthYear, SpeciesID, BuildingID,FoodCost) VALUES
(1, 'Healthy', 2015, 1, 1,100), (2, 'Sick', 2016, 2, 2,120.5), (3, 'Healthy', 2017, 3, 3,90), (4, 'Healthy', 2018, 4, 4,110.25,80.75), (5, 'Injured', 2019, 5, 5);

-- Building
INSERT INTO Building (BuildingID, Name, Type) VALUES
(1, 'Lion House', 'Enclosure'), (2, 'Tiger Den', 'Enclosure'), (3, 'Elephant Area', 'Open Space'), (4, 'Giraffe Tower', 'Enclosure'), (5, 'Penguin Pool', 'Aquatic Area');

-- RevenueTypes
INSERT INTO RevenueTypes (RevenueID, Name, Type, BuildingID) VALUES
(1, 'Entry Fees', 'Admission', NULL), (2, 'Safari Tour', 'Attraction', NULL), (3, 'Night Camping', 'Activity', NULL), (4, 'Gift Shop', 'Merchandise', NULL), (5, 'Food Court', 'Concession', NULL);

-- ZooAdmission
INSERT INTO ZooAdmission (RevenueID, SeniorPrice, AdultPrice, KidsPrice) VALUES
(1, 10.00, 15.00, 8.00), (2, 9.00, 14.00, 7.00), (3, 11.00, 16.00, 9.00), (4, 12.00, 17.00, 10.00), (5, 13.00, 18.00, 11.00);


-- Concession
INSERT INTO Concession (RevenueID, Product, AdultPrice, ChildPrice) VALUES
(1, 'Ice Cream', 2.00, 1.50), (2, 'Hot Dogs', 3.00, 2.00), (3, 'Souvenirs', 10.00, 7.00), (4, 'Beverages', 1.50, 1.00), (5, 'Sandwiches', 4.00, 3.00);
-- AnimalShow
INSERT INTO AnimalShow (RevenueID, ShowsPerDay, AdultPrice, KidsPrice, SeniorPrice) VALUES
(1, 1, 20.00, 10.00, 15.00), (2, 1, 18.00, 9.00, 14.00), (3, 1, 22.00, 11.00, 16.00), (4, 1, 19.00, 9.50, 14.50), (5, 1, 17.00, 8.50, 13.00);


INSERT INTO RevenueEvents (RevenueID, Date_Time, EventDate, Revenue, TicketsSold) VALUES
(1, '2023-01-01 10:00:00', '2023-01-01', 1000.00, 100),
```

(2, '2023-01-02 10:00:00', '2023-01-02', 1200.00, 120),
(3, '2023-01-03 10:00:00', '2023-01-03', 900.00, 90),
(4, '2023-01-04 10:00:00', '2023-01-04', 1300.00, 130),
(5, '2023-01-05 10:00:00', '2023-01-05', 800.00, 80);

##-- Enclosure
INSERT INTO Enclosure (EnclosureID, SqFt,BuildingID) VALUES
(1, 2000.00,1), (2, 1500.00,2), (3, 3000.00,4), (4, 1800.00,1), (5, 2500.00,4);

-- Attendance Table
INSERT INTO Attendance (EventDate, AttendeeType, NumberAttendees, Revenue) VALUES
('2023-01-01', 'Adult', 200, 4000), ('2023-01-01', 'Child', 150, 3000), ('2023-01-01', 'Senior', 100, 2000), ('2023-01-02', 'Adult', 180, 3600), ('2023-01-02', 'Child', 120, 2400);

-- ParticipatesIn
INSERT INTO ParticipatesIn (SpeciesID, RevenueID) VALUES
(1, 1), (2, 2), (3, 3), (4, 4), (5, 5);

-- Veterinarian (Assuming IDs 3, 6, 9 are Veterinarians)
INSERT INTO Veterinarian (EmployeeID, LicenseNumber) VALUES
(3, 'Lic001'), (6, 'Lic002'), (9, 'Lic003');

-- AnimalCareSpecialist (Assuming IDs 4, 6 are Animal Care Specialists)
INSERT INTO AnimalCareSpecialist (EmployeeID, Certification) VALUES
(4, 'Cert001'), (6, 'Cert002');

-- Maintenance (Assuming IDs 5, 7, 8, 9 are in Maintenance)
INSERT INTO Maintenance (EmployeeID) VALUES
(5), (7), (8), (9);

-- CustomerService (Assuming IDs 10, 12 are in Customer Service)
INSERT INTO CustomerService (EmployeeID) VALUES
(10), (12);

-- TicketSeller (Assuming IDs 11, 13, 14, 15 are Ticket Sellers)
INSERT INTO TicketSeller (EmployeeID, BoothNumber) VALUES
(11, 1), (13, 2), (14, 3), (15, 4);

-- VeterinarianAnimal (Example entries, assuming relevant Animal IDs)

```
INSERT INTO VeterinarianAnimal (VeterinarianID, AnimalID) VALUES
(3, 1), (6, 2), (9, 3);

-- AnimalCareSpecialistAnimal (Example entries, assuming relevant Animal IDs)
INSERT INTO AnimalCareSpecialistAnimal (AnimalCareSpecialistID, AnimalID) VALUES
(4, 1), (6, 2);
```