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| **Task** | **SQL Statement** |
| Login Visitor | SELECT \* FROM Visitor WHERE Email = “”  SELECT \* FROM Visitor WHERE Username = “”  SELECT \* FROM Visitor WHERE Email = “” AND Username = “” |
| Login Staff | SELECT \* FROM Staff WHERE Email = “”  SELECT \* FROM Staff WHERE Username = “”  SELECT \* FROM Staff WHERE Email = “” AND Username = “” |
| Login Admin | SELECT \* FROM Admin WHERE Email = “”  SELECT \* FROM Admin WHERE Username = “”  SELECT \* FROM Admin WHERE Email = “” AND Username = “” |
| Registration Visitor | INSERT into Visitor(Email, Username, Password) VALUES(“”, “” ,MD5(“”)); |
| Registration Staff | INSERT into Staff(Email, Username, Password) VALUES(“”, “” ,MD5(“”)); |
| Registration Admin | INSERT into Admin(Email, Username, Password) VALUES(“”, “” ,MD5(“”)); |
| Visitor Search Exhibits | SELECT Exhibits.ExhibitName, Size, Count(Exhibits.ExhibitName) AS NumAnimals, WaterFeature FROM Exhibits INNER JOIN Animal ON Exhibits.ExhibitName = Animal.ExhibitName WHERE Size BETWEEN 500 AND 900 AND WaterFeature = 1 HAVING Count(Exhibits.ExhibitName) BETWEEN 1 AND 2; |
| Exhibit Detail | SELECT Exhibits.ExhibitName, Size, Count(Exhibits.ExhibitName) AS NumAnimals, WaterFeature FROM Exhibits INNER JOIN Animal ON Exhibits.ExhibitName = Animal.ExhibitName WHERE Exhibits.ExhibitName = "Pacific";  SELECT AnimalName,AnimalSpecies FROM Exhibits INNER JOIN Animal ON Exhibits.ExhibitName = Animal.ExhibitName WHERE Exhibits.ExhibitName = "Pacific";  INSERT INTO ExhibitVisits(VisitorEmail, ExhibitName, DateTimes) VALUES ("isabellarodriguez@mail.com","Pacific",NOW()); |
| Animal Detail | SELECT \* FROM Animal WHERE AnimalName = "Nemo", AnimalSpecies= “”, AnimalType =””, Age = , ExhibitName =””; |
| Visitor Search Animals | SELECT Animal.AnimalName, Animal.AnimalSpecies, Animal.AnimalType, Animal.Age, Animal.ExhibitName FROM Animal WHERE Animal.AnimalName = “”, Animal.AnimalSpecies = “”, Animal.Age BETWEEN 1 AND 5 AND Animal.AnimalType = ””; |
| Visitor Search Shows   1. Insert a showvisit 2. Insert a exhibitvisit | 1. INSERT INTO ShowVisits(VisitorEmail, ShowName, DateAndTime) SELECT "isabellarodriguez@mail.com","Feed the Fish", "2018-10-12 2:00PM" FROM Shows WHERE Shows.ShowName = "Feed the Fish" AND "2018-10-12 2:00PM" < NOW() AND Shows.DateAndTime = "2018-10-12 2:00PM" 2. INSERT INTO ExhibitVisits(VisitorEmail, ExhibitName, DateTimes) SELECT "isabellarodriguez@mail.com","Pacific", "2019-10-12 12:00PM" FROM Shows WHERE Shows.ShowName = "Feed the Fish" AND "2019-10-12 12:00PM" < NOW() AND Shows.DateAndTime = "2019-10-12 12:00PM"; |
| Visitor View Exhibit History | SELECT t1.ExhibitName, t1.DateTimes, t2.NumOfVisits FROM (SELECT ExhibitName, DateTimes from ExhibitVisits) t1 INNER JOIN (SELECT ExhibitName, COUNT(ExhibitName) AS NumOfVisits FROM `ExhibitVisits` GROUP BY ExhibitName) t2 on t1.ExhibitName = t2.ExhibitName; |
| Visitor View Show History | SELECT DISTINCT Shows.ShowName, Shows.DateAndTime, Shows.ExhibitName FROM ShowVisits JOIN Shows ON ShowVisits.ShowName = Shows.ShowName WHERE ShowVisits.VisitorEmail = "isabellarodriguez@mail.com"; |
| Staff View Assigned Shows | SELECT Hosts.ShowName, Hosts.DateAndTime, Shows.ExhibitName FROM Hosts LEFT JOIN Shows on Hosts.ShowName = Shows.ShowName AND Hosts.DateAndTime = Shows.DateAndTime where Hosts.StaffEmail = ""; |
| Staff Search Animals | SELECT Animal.AnimalName, Animal.AnimalSpecies, Animal.AnimalType, Animal.Age, Animal.ExhibitName FROM Animal WHERE Animal.AnimalName = “”, Animal.AnimalSpecies = “”, Animal.Age BETWEEN 1 AND 5 AND Animal.AnimalType = ””;  INSERT INTO Note (StaffEmail, NoteTime, NoteText, AnimalName, AnimalSpecies)  VALUES ("benjaminrao@gmail.com",NOW(),"hi","Nemo","Clownfish");  SELECT StaffEmail AS StaffName,NoteText,NoteTime FROM Note; |
| Admin View Visitors | SELECT Username, Email FROM `Visitor` WHERE;  DELETE FROM ‘Visitor’ WHERE; |
| Admin View Staff | SELECT Username, Email FROM `Staff` WHERE;  DELETE FROM ‘Staff’ WHERE; |
| Admin View Show | SELECT \* FROM `Shows`;  DELETE FROM ‘Shows’’ WHERE; |
| Admin View Animals | SELECT \* FROM `Animal` WHERE;  DELETE FROM `Animal` WHERE;  INSERT INTO Animal VALUES(); |
| Admin Add Show | INSERT INTO Shows VALUES ();  INSERT INTO Hosts VALUES (); |