DSO 552: SQL Databases for Business Analysts
Homework 2

Trojan Entertainment Agency Database

This database manages entertainers, agents, customers, and bookings. Check Figure 1 (on the last page) for more details on the database structure.
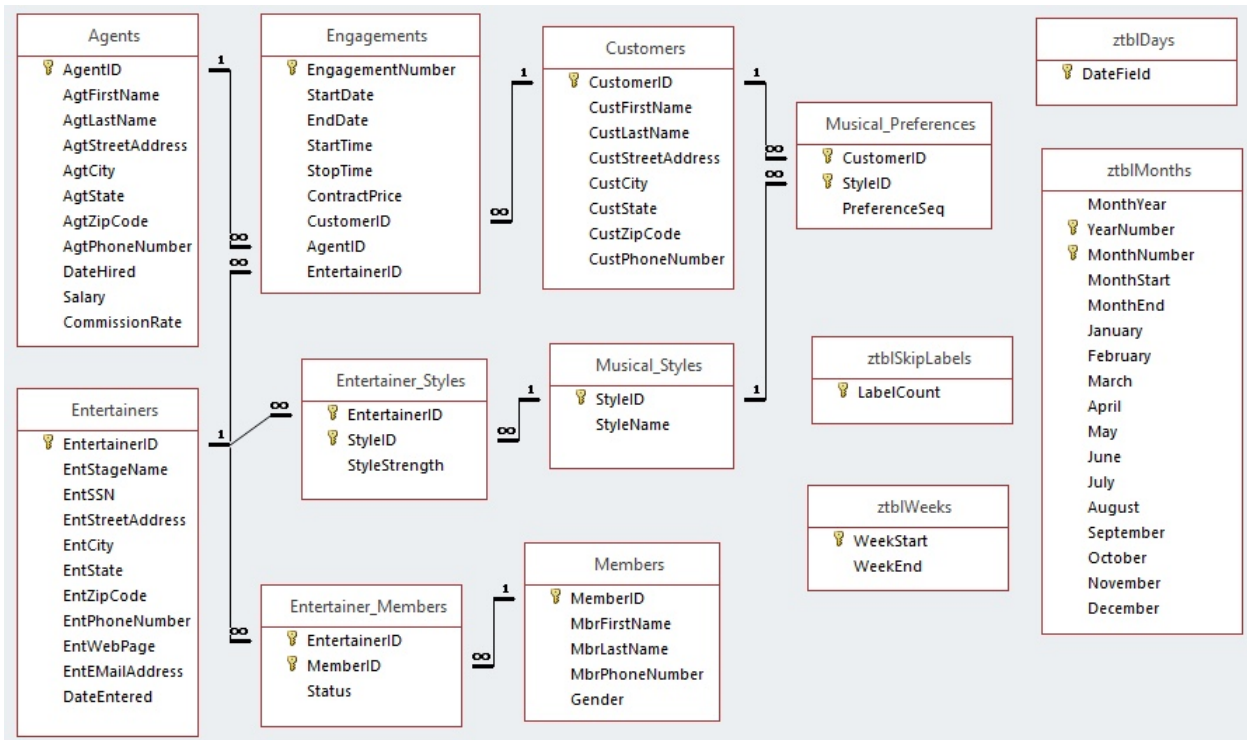

Figure 1: Trojan Entertainment Schema

1. *(1point)* **Show me the list of entertainers based in 'Bellevue', 'Redmond', or 'Woodinville' who do not have a registered email address.**

```sql
SELECT EntStageName, EntPhoneNumber, EntCity
FROM Entertainers
WHERE EntCity In ('Bellevue', 'Redmond', 'Woodinville') AND entemailaddress IS NULL
LIMIT 5;
```

Sample Output:

entstagename	entphonenumber	entcity
Jim Glynn	555-2531	Bellevue
Jazz Persuasion	555-2541	Bellevue

2. *(0.5point)* **Show me all the engagements that started in September 2017 and ran for four days. Consider the `enddate` as inclusive. Note that you can subtract two date fields to get the days difference between them.**

```sql
SELECT EngagementNumber, StartDate, EndDate
FROM Engagements
WHERE (EndDate - Startdate) = 3 AND startdate BETWEEN '2017-09-01' AND '2017-09-30'
limit 5;
```

Sample Output:

engagementnumber	startdate	enddate
5	2017-09-12	2017-09-15
13	2017-09-18	2017-09-21
17	2017-09-30	2017-10-03

3. *(0.5point)* **Display agents' first and last name, and the engagement dates they booked, sorted by booking start date with the most recent bookings listed first.**

```sql
SELECT Concat(Agents.AgtFirstName, ' ', Agents.AgtLastName) AS AgtFullName, Engagements.StartDate
FROM Agents
INNER JOIN Engagements
ON Agents.AgentID = Engagements.AgentID
ORDER BY StartDate DESC
limit 5;
```

Sample Output:

agtfullname	startdate
William Thompson	2018-03-04
Karen Smith	2018-02-27
William Thompson	2018-02-26
Karen Smith	2018-02-25
Marianne Wier	2018-02-25

4. *(1point)* **Find the agents and entertainers who live in the same postal code. Report the names as well as the postal code.**

```sql
SELECT Concat(Agents.AgtFirstName, ' ', Agents.AgtLastname) AS AgtFullName, Entertainers.EntStageName,
FROM Agents
INNER JOIN Entertainers
ON Agents.AgtZipCode = Entertainers.EntZipCode
limit 5;
```

Sample Output:

agtfullname	entstagename	agtzipcode
Caleb Viescas	Carol Peacock Trio	98052
Caleb Viescas	JV & the Deep Six	98052
Scott Bishop	Country Feeling	98125
Karen Smith	Country Feeling	98125
John Kennedy	Country Feeling	98125

5. *(1point)* **Show me entertainers, the start and end dates of their contracts, and the contract price.**

```
SELECT Entertainers.EntStageName, Engagements.StartDate, Engagements.EndDate, Engagements.ContractPrice
FROM Entertainers
INNER JOIN Engagements
ON Entertainers.EntertainerID = Engagements.EntertainerID
limit 5;
```

Sample Output:

entstagename	startdate	enddate	contractprice
Jim Glynn	2017-09-02	2017-09-06	200
Jazz Persuasion	2017-09-11	2017-09-16	590
Jim Glynn	2017-09-12	2017-09-18	470
JV & the Deep Six	2017-09-12	2017-09-15	1130
Country Feeling	2017-09-11	2017-09-15	2300

6. *(1point)* **Find the entertainers who played engagements for customers Berg or Hallmark.**

```
SELECT DISTINCT Entertainers.EntStageName
FROM (Entertainers
INNER JOIN Engagements
ON Entertainers.EntertainerID = Engagements.EntertainerID)
INNER JOIN Customers
ON Customers.CustomerID = Engagements.CustomerID
WHERE Customers.CustLastName = 'Berg'
OR Customers.CustLastName = 'Hallmark'
limit 5;
```

Sample Output:

entstagename
Carol Peacock Trio
Coldwater Cattle Company
Country Feeling
Jim Glynn
JV & the Deep Six

7. *(1point)* **How many engagements that started at 1pm in the afternoon have been booked in 2017?**

```
SELECT COUNT(DISTINCT engagementnumber)
FROM engagements
WHERE startdate between '2017-01-01' AND '2018-01-01' AND starttime = '13:00:00'
```

Sample Output:

count
6

8. *(1point)* **List all entertainers and any engagements they have booked that had contract prices above 1000.**

```
SELECT Entertainers.EntertainerID, Entertainers.EntStageName, Engagements.EngagementNumber, Engagements
FROM Entertainers
LEFT JOIN Engagements
```

```
ON Entertainers.EntertainerID = Engagements.EntertainerID
where Engagements.contractprice > 1000
limit 5;
```

Sample Output:

entertainerid	entstagename	engagementnumber	startdate	customerid
1001	Carol Peacock Trio	110	2018-02-12	10006
1001	Carol Peacock Trio	101	2018-01-23	10004
1001	Carol Peacock Trio	73	2017-12-30	10014
1001	Carol Peacock Trio	24	2017-10-02	10001
1001	Carol Peacock Trio	12	2017-09-19	10014

9. *(1point)* **Count the number of customers with no bookings**

```
SELECT COUNT(DISTINCT Customers.customerid)
FROM Customers
LEFT JOIN Engagements
ON Customers.CustomerID = Engagements.CustomerID
WHERE Engagements.EngagementNumber IS NULL
limit 5;
```

Sample Output:

count
2

10. *(1point)* **List entertainers who have either never been booked or do not have a webpage or email address.**

```
SELECT Entertainers.EntertainerID, Entertainers.EntStageName
FROM Entertainers
LEFT JOIN Engagements
ON Entertainers.EntertainerID = Engagements.EntertainerID
WHERE (Engagements.EngagementNumber Is Null) or (Entertainers.entwebpage is null) or (entertainers.enter
limit 5;
```

Sample Output:

entertainerid	entstagename
1004	Jim Glynn
1005	Jazz Persuasion
1004	Jim Glynn
1008	Country Feeling
1002	Topazz