# 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.
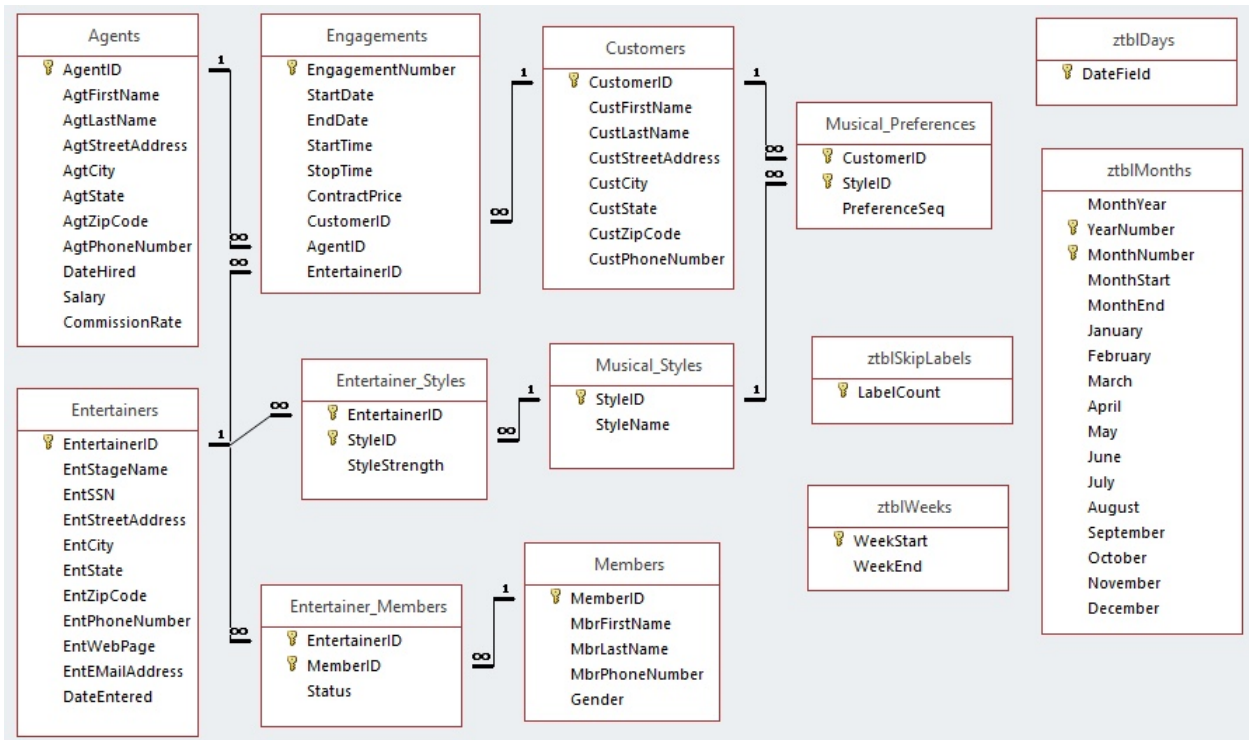


Figure 1: Trojan Entertainment Schema

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

*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.**

*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.**

*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.**

*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.**

*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.**

*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?**

*Sample Output:*

| count |
|-------|
| 6 |

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

*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**

*Sample Output:*

| count |
|-------|
| 2 |

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

*Sample Output:*

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