

**INFOST 410 – Database Information Retrieval Systems**  
**Semester: Summer 2017**  
**Instructor: Kevin Trainor**  
**Assignment: Final Project**  
**Course Component: Final Project**  
**Grading Rubric**

## Submission

### Timeliness (5 available points)

#### Requirements

Due by date and time shown in weekly schedule.

Percent Credit	Description
100	On Time
0	Late
0	Not submitted

## File Submitted (5 available points)

### Requirements

Submit only 1 file.

File type must be .ZIP.

Submitted file must be named according to the instructions (e.g. trainor\_kevin\_final\_project.zip).

Directory must be named according to the instructions (e.g. trainor\_kevin\_final\_project).

.SQL files within the directory must be named according to the instructions.

Percent Credit	Description
100	Meets all expectations.
90	Meets nearly all expectations.
75	Meets most expectations.
50	Meets some expectations.
25	Meets few expectations.
10	Meets nearly no expectations.
0	Meets no expectations.
0	Not submitted or submitted too late.
0	Cannot be tested or evaluated.

# The Database

## Physical Database Implementation (10 available points)

### Requirements

All tables from logical design implemented.

All relationships from logical design implemented.

Primary keys from logical design identified and constrained.

Foreign keys from logical design identified and constrained.

Indexes implemented for primary keys and frequently used secondary keys.

All column data types from logical design implemented

Columns allow NULL values only when appropriate. See test data values for guidance.

AUTO\_INCREMENT feature used for appropriate primary key columns.

UNIQUE column constraint used for non-primary-key fields where appropriate. This is particularly important for text -based name columns that are associated with integer primary keys. columns.

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100	Meets all expectations.
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25	Meets few expectations.
10	Meets nearly no expectations.
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## Populate Test Data (10 available points)

### Requirements

All data from Appendix B Test Files populated in database tables.

Missing data values represented as NULL.

Percent Credit	Description
100	Meets all expectations.
90	Meets nearly all expectations.
75	Meets most expectations.
50	Meets some expectations.
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## The SQL Scripts

### 01\_restore\_populated\_www\_database.sql (5 available points)

#### Requirements

Includes DROP DATABASE IF EXISTS `www`;

Includes CREATE DATABASE `www`;

Names database schema "www".

Drops tables and recreates them.

Inserts data into tables for testing.

Works equally well whether or not there is a pre-existing www database.

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100	Meets all expectations.
90	Meets nearly all expectations.
75	Meets most expectations.
50	Meets some expectations.
25	Meets few expectations.
10	Meets nearly no expectations.
0	Meets no expectations.
0	Not submitted or submitted too late.
0	Cannot be tested or evaluated.

## 02\_phone\_list.sql (5 available points)

### Requirements

Includes USE www;

Produces expected result set.

Result set has the required number of rows.

Result set has required columns in the required order.

Result set has appropriate column names.

Rows in result set are sorted in required order using ORDER BY.

JOINS use the explicit join syntax in the FROM clause rather than the implicit join syntax implemented in the WHERE clause.

Percent Credit	Description
100	Meets all expectations.
90	Meets nearly all expectations.
75	Meets most expectations.
50	Meets some expectations.
25	Meets few expectations.
10	Meets nearly no expectations.
0	Meets no expectations.
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0	Cannot be tested or evaluated.

### 03\_guide\_roles\_list.sql (5 available points)

#### Requirements

Includes USE www;

Produces expected result set.

Result set has the required number of rows.

Result set has required columns in the required order.

Result set has appropriate column names.

Rows in result set are sorted in required order using ORDER BY.

JOINS use the explicit join syntax in the FROM clause rather than the implicit join syntax implemented in the WHERE clause.

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## 04\_employee\_availability\_list.sql (5 available points)

### Requirements

Includes USE www;

Produces expected result set.

Result set has the required number of rows.

Result set has required columns in the required order.

Result set has appropriate column names.

Rows in result set are sorted in required order using ORDER BY.

JOINS use the explicit join syntax in the FROM clause rather than the implicit join syntax implemented in the WHERE clause.

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0	Cannot be tested or evaluated.



## 05\_booking\_summary.sql (5 available points)

### Requirements

Includes USE www;

Produces expected result set.

Result set has the required number of rows.

Result set has required columns in the required order.

Result set has appropriate column names.

Rows in result set are sorted in required order using ORDER BY.

JOINS use the explicit join syntax in the FROM clause rather than the implicit join syntax implemented in the WHERE clause.

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## 06\_trip\_roster.sql (5 available points)

### Requirements

Includes USE www;

Produces expected result set.

Result set has the required number of rows.

Result set has required columns in the required order.

Result set has appropriate column names.

Rows in result set are sorted in required order using ORDER BY.

JOINS use the explicit join syntax in the FROM clause rather than the implicit join syntax implemented in the WHERE clause.

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0	Cannot be tested or evaluated.

## 07\_trip\_detail\_sheet.sql (5 available points)

### Requirements

Includes USE www;

Produces expected result set.

Result set has the required number of rows.

Result set has required columns in the required order.

Result set has appropriate column names.

Rows in result set are sorted in required order using ORDER BY.

JOINS use the explicit join syntax in the FROM clause rather than the implicit join syntax implemented in the WHERE clause.

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75	Meets most expectations.
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0	Meets no expectations.
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0	Cannot be tested or evaluated.

## 08\_add\_a\_new\_reservation.sql (5 available points)

### Requirements

Includes USE www;

Hard coded key values produce expected results when scripts are run in proper order.

Scripts include a series of SQL statements that maintain database referential integrity.

Scripts produce required results in the database.

Percent Credit	Description
100	Meets all expectations.
90	Meets nearly all expectations.
75	Meets most expectations.
50	Meets some expectations.
25	Meets few expectations.
10	Meets nearly no expectations.
0	Meets no expectations.
0	Not submitted or submitted too late.
0	Cannot be tested or evaluated.

## 09\_transfer\_a\_reservation.sql (5 available points)

### Requirements

Includes USE www;

Hard coded key values produce expected results when scripts are run in proper order.

Scripts include a series of SQL statements that maintain database referential integrity.

Scripts produce required results in the database.

Percent Credit	Description
100	Meets all expectations.
90	Meets nearly all expectations.
75	Meets most expectations.
50	Meets some expectations.
25	Meets few expectations.
10	Meets nearly no expectations.
0	Meets no expectations.
0	Not submitted or submitted too late.
0	Cannot be tested or evaluated.

## 10\_delete\_a\_reservation.sql (5 available points)

### Requirements

Includes USE www;

Hard coded key values produce expected results when scripts are run in proper order.

Scripts include a series of SQL statements that maintain database referential integrity.

Scripts produce required results in the database.

Percent Credit	Description
100	Meets all expectations.
90	Meets nearly all expectations.
75	Meets most expectations.
50	Meets some expectations.
25	Meets few expectations.
10	Meets nearly no expectations.
0	Meets no expectations.
0	Not submitted or submitted too late.
0	Cannot be tested or evaluated.

## 11\_add\_a\_new\_employee.sql (5 available points)

### Requirements

Includes USE www;

Hard coded key values produce expected results when scripts are run in proper order.

Scripts include a series of SQL statements that maintain database referential integrity.

Scripts produce required results in the database.

Percent Credit	Description
100	Meets all expectations.
90	Meets nearly all expectations.
75	Meets most expectations.
50	Meets some expectations.
25	Meets few expectations.
10	Meets nearly no expectations.
0	Meets no expectations.
0	Not submitted or submitted too late.
0	Cannot be tested or evaluated.

## 12\_delete\_an\_existing\_employee.sql (5 available points)

### Requirements

Includes USE www;

Hard coded key values produce expected results when scripts are run in proper order.

Scripts include a series of SQL statements that maintain database referential integrity.

Scripts produce required results in the database.

Percent Credit	Description
100	Meets all expectations.
90	Meets nearly all expectations.
75	Meets most expectations.
50	Meets some expectations.
25	Meets few expectations.
10	Meets nearly no expectations.
0	Meets no expectations.
0	Not submitted or submitted too late.
0	Cannot be tested or evaluated.



### 13\_add\_a\_new\_trip.sql (5 available points)

#### Requirements

Includes USE www;

Hard coded key values produce expected results when scripts are run in proper order.

Scripts include a series of SQL statements that maintain database referential integrity.

Scripts produce required results in the database.

Percent Credit	Description
100	Meets all expectations.
90	Meets nearly all expectations.
75	Meets most expectations.
50	Meets some expectations.
25	Meets few expectations.
10	Meets nearly no expectations.
0	Meets no expectations.
0	Not submitted or submitted too late.
0	Cannot be tested or evaluated.

## 14\_delete\_an\_existing\_trip.sql (5 available points)

### Requirements

Includes USE www;

Hard coded key values produce expected results when scripts are run in proper order.

Scripts include a series of SQL statements that maintain database referential integrity.

Scripts produce required results in the database.

Percent Credit	Description
100	Meets all expectations.
90	Meets nearly all expectations.
75	Meets most expectations.
50	Meets some expectations.
25	Meets few expectations.
10	Meets nearly no expectations.
0	Meets no expectations.
0	Not submitted or submitted too late.
0	Cannot be tested or evaluated.

**Net Available Points = 100**