Databases Project – Spring 2019

Team No:

Names: Camilla Giaccari, Hédi Sassi, Simon Perriard

Contents

Contents 1

Deliverable 1 2

Assumptions 2

Entity Relationship Schema 2

Schema 2

Description 2

Relational Schema 2

ER schema to Relational schema 2

DDL 3

General Comments 3

Deliverable 2 4

Assumptions 4

Data Loading 4

Query Implementation 4

Query a: 4

Description of logic: 4

SQL statement 4

Interface 4

Design logic Description 4

Screenshots 4

General Comments 4

Deliverable 3 5

Assumptions 5

Query Implementation 5

Query a: 5

Description of logic: 5

SQL statement 5

Query Analysis 5

Selected Queries (and why) 5

Query 1 5

Query 2 5

Query 3 5

Interface 6

Design logic Description 6

Screenshots 6

General Comments 6

# Deliverable 1

## Assumptions

<In this section write down the assumptions you made about the data. Write a sentence for each assumption you made>

## Entity Relationship Schema

<In this section you should have figure of the ER schema as well as descriptions about entities and relations>

### Schema

<Add the figure of the ER schema>

### Description

<Describe all the choices you made for Entities and Relationships>

## Relational Schema

### ER schema to Relational schema

<Describe the transition from ER schema to Relational schema>

### DDL

<Provide the DDL>

## General Comments

<In this section write general comments about your deliverable (comments and work allocation between team members>

# Deliverable 2

## Assumptions

<In this section write down the assumptions you made about the data. Write a sentence for each assumption you made>

## Data Loading

## Query Implementation

<For each query>

### Query a:

#### Description of logic:

<What does the query do and how do I decide to solve it>

#### SQL statement

<The SQL statement>

## Interface

### Design logic Description

<Describe the general logic of your design as well as the technology you decided to use>

### Screenshots

<Provide some initial screen shots of your interface>

## General Comments

<In this section write general comments about your deliverable (comments and work allocation between team members>

# Deliverable 3

# Assumptions

<In this section write down the assumptions you made about the data. Write a sentence for each assumption you made>

## Query Implementation

<For each query>

### Query a:

#### Description of logic:

<What does the query do and how do I decide to solve it>

#### SQL statement

<The SQL statement>

## Query Analysis

### Selected Queries (and why)

#### Query 1

<Initial Running time:

Optimized Running time:

Explain the improvement:

Initial plan

Improved plan>

#### Query 2

<Initial Running time:

Optimized Running time:

Explain the improvement:

Initial plan

Improved plan>

#### Query 3

<Initial Running time:

Optimized Running time:

Explain the improvement:

Initial plan

Improved plan>

# Interface

### Design logic Description

<Describe the general logic of your design as well as the technology you decided to use>

### Screenshots

<Provide some initial screen shots of your interface>

# General Comments

<In this section write general comments about your deliverable (comments and work allocation between team members>