Databases Project – Spring 2017

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Team No:

Names:

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# 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

We translate the given dataset description into entities. We add some entities to better sort data:

* Person: id, name which describe the different persons for a story
* Price: id, amount, currency which describe the different price for an issue
* Genre: id, name
* Website: id, url

And instead of doing an entity for the issue\_reprint and story\_reprint, we add one relationship “Reprint” to issue and one relationship “Reprint” to story, which has an id attribute and repoints to the same entity.

## 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>