

# **Software Development Project CS4014**

## **Deliverable 2 – Week 8**

### **Group 20 – FBI Surveillance Van**

**Colm Le Gear – 15148823**

**Liam Horgan – 14164736**

**David Kearney – 15169235**

**Ryan Harris – 13150154**

# 1. Introduction

This report details the database schema as created by Group 20 for the CS4014 Software Development project. This document consists of a single section, containing:

- Database Table Synopsis – a simple listing of the attributes and datatypes for every table in the database.
- Table SQL Creation Declarations – the SQL statements used to create each table on the group's MySQL database, including information on Foreign Key constraints, use of auto-increment, and default attribute values.
- Link to Git Repository file - <https://github.com/CS4084/CS4084/blob/x/group20.sql>  
(Note that this is an exported MySQL database schema without any sample data)

## subject\_streams

| Column        | Type         | Null |
|---------------|--------------|------|
| userId        | mediumint(9) | No   |
| subjectStream | smallint(6)  | No   |

```
CREATE TABLE `subject_streams` (  
  `userId` mediumint(9) NOT NULL,  
  `subjectStream` smallint(6) NOT NULL  
) ENGINE=InnoDB DEFAULT CHARSET=latin1 ROW_FORMAT=COMPACT;
```

## tags

| Column | Type         | Null |
|--------|--------------|------|
| tag    | text         | No   |
| tagId  | mediumint(9) | No   |

```
CREATE TABLE `tags` (  
  `tag` text NOT NULL,  
  `tagId` mediumint(9) NOT NULL  
) ENGINE=InnoDB DEFAULT CHARSET=utf8;
```

# task

| Column                 | Type         | Null |
|------------------------|--------------|------|
| taskId                 | varchar(32)  | No   |
| userId                 | mediumint(9) | No   |
| taskTitle              | varchar(32)  | No   |
| taskType               | varchar(32)  | No   |
| taskDesc               | varchar(32)  | No   |
| taskSubject            | varchar(32)  | No   |
| pageCount              | mediumint(9) | No   |
| wordCount              | mediumint(9) | No   |
| taskTags               | varchar(32)  | No   |
| taskClaimDeadline      | date         | No   |
| taskCompletionDeadline | date         | No   |
| samplePic1             | varchar(255) | No   |
| samplePic2             | varchar(255) | No   |
| samplePic3             | varchar(255) | No   |

```
CREATE
TABLE
`task`
(
    `taskId` varchar(32) NOT NULL,
    `userId` mediumint(9) NOT NULL,
    `taskTitle` varchar(32) NOT NULL,
    `taskType` varchar(32) NOT NULL,
    `taskDesc` varchar(32) NOT NULL,
    `taskSubject` varchar(32) NOT NULL,
    `pageCount` mediumint(9) NOT NULL,
    `wordCount` mediumint(9) NOT NULL,
    `taskTags` varchar(32) NOT NULL,
    `taskClaimDeadline` date NOT NULL,
    `taskCompletionDeadline` date NOT NULL,
    `samplePic1` varchar(255) NOT NULL,
    `samplePic2` varchar(255) NOT NULL,
    `samplePic3` varchar(255) NOT NULL
) ENGINE=InnoDB DEFAULT CHARSET=utf8;
```

## task\_claimed

| Column | Type         | Null |
|--------|--------------|------|
| taskId | mediumint(9) | No   |
| userId | mediumint(9) | No   |

```
CREATE TABLE
`task_claimed`
(
    `taskId` mediumint(9) NOT NULL,
    `userId` mediumint(9) NOT NULL
) ENGINE=InnoDB DEFAULT CHARSET=utf8;
```

## task\_completed

| Column   | Type       | Null |
|----------|------------|------|
| taskId   | int(11)    | No   |
| userId   | int(11)    | No   |
| feedback | tinyint(1) | No   |
| review   | text       | No   |

```
CREATE TABLE
`task_completed`
(
    `taskId` int(11) NOT NULL,
    `userId` int(11) NOT NULL,
    `feedback` tinyint(1) NOT NULL,
    `review` text NOT NULL
) ENGINE=InnoDB DEFAULT CHARSET=utf8;
```

## task\_flagged

| Column | Type    | Null |
|--------|---------|------|
| taskId | int(11) | No   |
| userId | int(11) | No   |

```
CREATE TABLE
`task_flagged`
(
    `taskId` int(11) NOT NULL,
    `userId` int(11) NOT NULL
) ENGINE=InnoDB DEFAULT CHARSET=utf8;
```

## task\_tags

| Column | Type         | Null |
|--------|--------------|------|
| taskId | mediumint(9) | No   |
| tagId  | mediumint(9) | No   |

```
CREATE
TABLE
`task_tags`
(
    `taskId` mediumint(9) NOT NULL,
    `tagId` mediumint(9) NOT NULL
) ENGINE=InnoDB DEFAULT CHARSET=utf8;
```

## unpublished\_tasks

| Column      | Type         | Null |
|-------------|--------------|------|
| taskId      | mediumint(9) | No   |
| userId      | mediumint(9) | No   |
| moderatorId | mediumint(9) | No   |

```
CREATE TABLE
`unpublished_tasks`
(
    `taskId` mediumint(9) NOT NULL,
    `userId` mediumint(9) NOT NULL,
    `moderatorId` mediumint(9) NOT NULL
) ENGINE=InnoDB DEFAULT CHARSET=utf8;
```

## users

| Column                    | Type         | Null |
|---------------------------|--------------|------|
| userId ( <i>Primary</i> ) | mediumint(9) | No   |
| firstName                 | varchar(32)  | No   |
| lastName                  | varchar(32)  | No   |
| studentId                 | mediumint(9) | No   |
| email                     | varchar(255) | No   |
| password                  | varchar(32)  | No   |
| repScore                  | mediumint(9) | No   |
| dateJoined                | date         | No   |

```
CREATE
TABLE
`users`
(
    `userId` mediumint(9) NOT NULL,
    `firstName` varchar(32) NOT NULL,
    `lastName` varchar(32) NOT NULL,
    `studentId` mediumint(9) NOT NULL,
```

```

        `email` varchar(255) NOT NULL,
        `password` varchar(32) NOT NULL,
        `repScore` mediumint(9) NOT NULL,
        `dateJoined` date NOT NULL
    ) ENGINE=InnoDB DEFAULT CHARSET=latin1 ROW_FORMAT=COMPACT;

```

## user\_banned

| Column                          | Type         | Null |
|---------------------------------|--------------|------|
| moderatorId                     | mediumint(9) | No   |
| bannedUserId ( <i>Primary</i> ) | mediumint(9) | No   |

```

CREATE TABLE
`user_banned`
(
    `moderatorId` mediumint(9) NOT NULL,
    `bannedUserId` mediumint(9) NOT NULL
) ENGINE=InnoDB DEFAULT CHARSET=utf8;

```

## user\_favourite\_tags

| Column    | Type         | Null |
|-----------|--------------|------|
| userId    | mediumint(9) | No   |
| tagId     | mediumint(9) | No   |
| viewCount | int(11)      | No   |

```

CREATE TABLE
`user_favourite_tags`
(
    `userId` mediumint(9) NOT NULL,
    `tagId` mediumint(9) NOT NULL,
    `viewCount` int(11) NOT NULL
) ENGINE=InnoDB DEFAULT CHARSET=utf8;

```



## user\_subscribed\_tags

| Column | Type         | Null |
|--------|--------------|------|
| userId | mediumint(9) | No   |
| tagId  | mediumint(9) | No   |

```
CREATE TABLE
`user_subscribed_tags`
(
    `userId` mediumint(9) NOT NULL,
    `tagId` mediumint(9) NOT NULL
) ENGINE=InnoDB DEFAULT CHARSET=utf8;
```