

# CPSC 304 Project Cover Page

Milestone #: \_\_2\_\_

Date: \_2023-03-01\_\_

Group Number: \_\_49\_\_

Name	Student Number	CS Alias (Userid)	Preferred E-mail Address
Christian Luca Esposito	12746153	d0c3b	christian.luca.esposito@gmail.com
Amy Chen	51509081	c9p6e	chenn.amy@gmail.com
Jeffrey Chow	14941158	f2x4t	jeffreychow97@gmail.com

By typing our names and student numbers in the above table, we certify that the work in the attached assignment was performed solely by those whose names and student IDs are included above. (In the case of Project Milestone 0, the main purpose of this page is for you to let us know your e-mail address, and then let us assign you to a TA for your project supervisor.)

In addition, we indicate that we are fully aware of the rules and consequences of plagiarism, as set forth by the Department of Computer Science and the University of British Columbia

# University of British Columbia, Vancouver

## Department of Computer Science

### Project Summary

The application represents the management of a video game award show. Aspects of the domain that we intend to model are award ceremony, the venue, the address, the awards, community awards, company sponsors, video games, downloadable content (DLC), developers, staff, and the historical data of these aspects for each year of the award show's history.

### The Schema

**Venue**(address: char[50] (CK), name: char[50] (PK), capacity: Integer)

**AwardCeremony**(viewer\_count: Integer, date: Date (CK), venue\_name: char[50] (FK))

**Staff**(Phone\_number: Integer (CK, Unique), Name: char[50], ID: Integer (PK), Role: char[50])

**Company**(name: char[50] (PK), Contact\_info: char[50] (CK, Unique))

**VideoGame\_DLC**(Title: char[50] (PK), Year: Integer (PK), Videogame\_title: char[50] (PK))

**VideoGame**(Title: char[50] (PK), Year: Integer (PK), Genre: char[20])

**Livestream**(Url: char[50] (PK), Language: char[50], Viewer\_count: Integer, Name: char[50], Awardceremony\_date)

**Award**(Name: char[50] (PK), Date: Date (PK), Prize: Integer)

**CommunityAward**(Votes: Integer, Deadline: Date (Not Null), Award\_name: char[50] (PK), Award Year: Integer (PK))

**SponsoredAward**(Sponsor: char[50], Award Name: char[50] (PK), Award Year: Integer (PK))

**Developer**(Lead Developer: char[50], Country: char[50], Website: char[50] (CK), Name: char[50] (PK))

**Sponsors**(Company Name: char[50] (PK), Awardceremony Date: Date (PK), Money: Integer (Not null))

**Staff\_AwardCeremony**(staffID: Integer (PK, FK), CeremonyYearRegistered: Integer (PK,FK))

# University of British Columbia, Vancouver

Department of Computer Science

## Functional Dependencies

### Venue:

Name -> Address, Capacity

### AwardCeremony:

Date -> Viewer count, venue\_name

### Staff:

Id -> Name, Phone #, Role

### Company:

name -> ContactInfo

ContactInfo -> name

### Sponsors

Year, Name -> Money

### LiveStream:

Url -> Name, Viewer Count, Language, AwardCeremonyDate

ViewerCount, language -> Name

### Awards (CommunityAward, SponsoredAward):

Name, date -> Prize

Name, date -> Votes, Deadline

Name, date -> Sponsor

### VideoGame:

Title, Year, DLC\_Title, DLC\_Year -> Genre

Title, Year -> Genre

### Developer:

Name -> LeadDeveloper, country, Website

LeadDeveloper -> country

### Staff\_AwardCeremony:

No FDs.

## University of British Columbia, Vancouver

### Department of Computer Science

#### Normalization

Being in 3NF means that for every  $X \rightarrow b$ , X is either a superkey for b OR b is part of a minimal key.

**Venue**(Address: char[50], Name: char[50] (PK), Capacity: Integer)

FDs :

Name  $\rightarrow$  Address, Capacity

X is a superkey in this case, therefore it is in 3NF.

**AwardCeremony**(viewerCount: Integer, Date: Date (PK), , venue\_name: char[50])

FDs:

Date  $\rightarrow$  Viewer count, venue\_name

This is a two attribute relationship, which is always in 3NF/BCNF.

**Staff**(Phone #: Integer (CK, Unique), Name: char[50], ID Number: Integer (PK), Role: char[50])

FDs:

Id  $\rightarrow$  Name, Phone #, Role

X is a superkey in this case, therefore it is in 3NF.

**Company**(name: char[50] (PK), Contact info: char[50] (CK, Unique))

FDs:

name  $\rightarrow$  ContactInfo

ContactInfo  $\rightarrow$  name

This is a two attribute relationship, which is always in 3NF/BCNF.

**VideoGame\_DLC**(Title: char[50] (PK), Year: Integer (PK), Video Game Title: char[50] (PK), Video Game Year (PK))

FDs:

Title, Year, DLC\_Title, DLC\_Year  $\rightarrow$  Genre

X is a superkey in this case, therefore it is in 3NF.

## University of British Columbia, Vancouver

Department of Computer Science

**VideoGame**(Title: char[50] (PK), Year: Integer (PK), Genre: char[20])

### FDs:

Title, Year -> Genre

X is a superkey in this case, therefore it is in 3NF.

**Livestream**(Language: char[50], Viewer Count: Integer, Url: char[50] (PK), Name: char[50], AwardCeremonyDate: char[50])

### FDs:

Url -> Name, Viewer Count, Language, AwardCeremonyDate (BCNF)

Language, AwardCeremonyDate, Name -> ViewerCount (not in BCNF)

The first FD is in 3NF because Url is a superkey.

The second FD (Language, AwardCeremonyDate, Name -> ViewerCount) is not in 3NF.

### Closures:

{Url}<sup>+</sup> = {Name, Viewer Count, Language, Url, AwardCeremonyDate}

Keys: {Url}

Language, AwardCeremonyDate, Name -> ViewerCount violates BCNF,

**therefore we decompose on it:**

R1(Language, AwardCeremonyDate, Name, ViewerCount), R2(Name, Language, Url, AwardCeremonyDate)

**The new tables are :**

**LivestreamViewerCount**(Language: char[50], AwardCeremonyDate: Date, Name: char[50], ViewerCount: INTEGER)

**LivestreamUrl**(Language: char[50], AwardCeremonyDate: Date, Name: char[50], Url: char[50])

**Award**(Name: char[50] (PK), Date: Date (PK), Prize: Integer)

### FDs:

Name, year -> Prize

X is a superkey in this case, therefore it is in 3NF.

## University of British Columbia, Vancouver

### Department of Computer Science

**CommunityAward**(Votes: Integer, Deadline: Date (Not Null), Award Name: char[50] (PK), Award Year: Integer (PK))

FDs:

Award\_Name, Award\_year -> Votes, Deadline

X is a superkey in this case, therefore it is in 3NF.

**SponsoredAward**(Sponsor: char[50], Award Name: char[50] (PK), Award Year: Integer (PK))

FDs:

Award\_Name, Award\_year -> Sponsor

X is a superkey in this case, therefore it is in 3NF.

**Developer**(Lead Developer: char[50], Country: char[50], Website: char[50], Name: char[50] (PK))

FDs:

Name -> LeadDeveloper, country, Website

LeadDeveloper -> country

Name is a superkey, therefore the first FD is in BCNF.

We will decompose the second FD.

Closures:

{Name}<sup>+</sup> = {Name, LeadDeveloper, Country, Website}

{LeadDeveloper}<sup>+</sup> = {LeadDeveloper, Country}

Keys: {Name}

R1(LeadDeveloper, Country), R2(LeadDeveloper, Name, Website)

The new tables are :

**DeveloperCountry**(LeadDeveloper: char[50], Country: char[50])

**DeveloperName**(LeadDeveloper: char[50], Website: char[50], Name: char[50],)

## University of British Columbia, Vancouver

### Department of Computer Science

**Sponsors**(Company Name: char[50] (PK), Award Ceremony Year: Integer (PK), Money: Integer (Not null))

FDs:

Year, Name -> Money

X is a superkey in this case, therefore it is in 3NF.

**Staff\_AwardCeremony**(staffID: Integer (PK, FK), AwardCeremonyDate: Date (PK,FK))

This is a two attribute relationship, which is always in 3NF/BCNF.

---

### SQL DDL Statements

```
CREATE TABLE Venue(  
    name VARCHAR(50) PRIMARY KEY,  
    address VARCHAR(50),  
    capacity INTEGER  
);  
  
CREATE TABLE AwardCeremony(  
    viewer_count INTEGER,  
    date Date PRIMARY KEY,  
    venue_name VARCHAR(50),  
    FOREIGN KEY (venue_name) REFERENCES Venue(name)  
        ON DELETE SET NULL  
        ON UPDATE CASCADE  
);  
  
CREATE TABLE Staff(  
    phone_number INTEGER UNIQUE,  
    name VARCHAR(50),  
    id INTEGER PRIMARY KEY,  
    role VARCHAR(50)  
);  
  
CREATE TABLE Company(  
    name VARCHAR(50) PRIMARY KEY,  
    contact_info VARCHAR(100)  
);
```

# University of British Columbia, Vancouver

## Department of Computer Science

```
CREATE TABLE VideoGame_DLC(  
    title CHAR(50),  
    year INTEGER,  
    videogame_title CHAR(50),  
    videogame_year INTEGER,  
    PRIMARY KEY (title, year, videogame_title, videogame_year),  
    FOREIGN KEY (videogame_title, videogame_year) REFERENCES VideoGame(title, year)  
        ON DELETE NO ACTION  
        ON UPDATE CASCADE  
);
```

```
CREATE TABLE VideoGame(  
    title VARCHAR(128),  
    year INTEGER,  
    genre VARCHAR(50),  
    developer_name VARCHAR(20),  
    PRIMARY KEY (title, year),  
    FOREIGN KEY (developer_name) REFERENCES Developer(Name)  
        ON DELETE SET NULL  
        ON UPDATE CASCADE  
);
```

```
CREATE TABLE LivestreamViewerCount(  
    language VARCHAR(50),  
    viewer_count INTEGER,  
    name VARCHAR(50),  
    awardceremony_date Date,  
    PRIMARY KEY (language, awardceremony_date, name),  
    FOREIGN KEY (awardceremony_date) REFERENCES AwardCeremony(date)  
        ON DELETE SET NULL  
        ON UPDATE CASCADE,  
    FOREIGN KEY (name) REFERENCES LivestreamUrl(name)  
        ON DELETE CASCADE  
        ON UPDATE CASCADE,  
    FOREIGN KEY (language) REFERENCES LivestreamUrl(language)  
        ON DELETE CASCADE  
        ON UPDATE CASCADE  
);
```

```
CREATE TABLE LivestreamUrl(  
    url VARCHAR(100) PRIMARY KEY,  
    language VARCHAR(50),  
    name VARCHAR(50),
```



## University of British Columbia, Vancouver

### Department of Computer Science

```
awardceremony_date Date,  
FOREIGN KEY (awardceremony_date) REFERENCES AwardCeremony(Date)  
    ON DELETE SET NULL  
    ON UPDATE CASCADE  
);  
  
CREATE TABLE Award(  
    name VARCHAR(50),  
    prize INTEGER,  
    date Date,  
    videogame_title VARCHAR(50),  
    videogame_year VARCHAR(50),  
    PRIMARY KEY (date, name),  
    FOREIGN KEY(date) REFERENCES AwardCeremony(date)  
        ON DELETE CASCADE  
        ON UPDATE CASCADE,  
    FOREIGN KEY(videogame_title, videogame_year) REFERENCES VideoGame(Title, Year)  
        ON DELETE NO ACTION  
        ON UPDATE CASCADE  
);
```

```
CREATE TABLE CommunityAward(  
    votes INTEGER,  
    deadline Date,  
    award_name VARCHAR(50),  
    award_date Date,  
    PRIMARY KEY (award_name, award_date),  
    FOREIGN KEY (award_name, award_date) REFERENCES Award(name, date)  
        ON DELETE CASCADE  
        ON UPDATE CASCADE  
);
```

```
CREATE TABLE SponsoredAward(  
    sponsor VARCHAR(50),  
    award_name VARCHAR(50),  
    award_date Date,  
    PRIMARY KEY (award_name, award_date),  
    FOREIGN KEY (award_name, award_date) REFERENCES Award(name, date)  
        ON DELETE CASCADE  
        ON UPDATE CASCADE  
);
```

```
CREATE TABLE DeveloperCountry(  
    developer VARCHAR(50),  
    country VARCHAR(50),  
    PRIMARY KEY (developer, country),  
    FOREIGN KEY (developer) REFERENCES VideoGame(Title)  
        ON DELETE NO ACTION  
        ON UPDATE CASCADE  
);
```

## University of British Columbia, Vancouver

### Department of Computer Science

```
    lead_developer VARCHAR(50) PRIMARY KEY,  
    country VARCHAR(50),  
    FOREIGN KEY (lead_developer) REFERENCES DeveloperName(lead_developer)  
        ON DELETE CASCADE  
        ON UPDATE CASCADE  
);
```

```
CREATE TABLE DeveloperName(  
    lead_developer VARCHAR(50),  
    website VARCHAR(50),  
    name VARCHAR(50) PRIMARY KEY  
);
```

```
CREATE TABLE Staff_AwardCeremony(  
    staff_id INTEGER,  
    awardceremony_date Date,  
    PRIMARY KEY(staff_id, awardceremony_date),  
    FOREIGN KEY(staff_id) REFERENCES Staff(id),  
    FOREIGN KEY(awardceremony_date) REFERENCES AwardCeremony(date)  
);
```

```
CREATE TABLE Sponsors(  
    company_name VARCHAR(50),  
    awardceremony_date Date,  
    money INTEGER,  
    PRIMARY KEY(company_name, awardceremony_date),  
    FOREIGN KEY(company_name) REFERENCES Company(company_name),  
    FOREIGN KEY(awardceremony_date) REFERENCES AwardCeremony(date)  
);
```

---

### Insert Statements

```
INSERT INTO Venue(name, address, capacity)  
VALUES
```

```
    ('Microsoft Theater', '777 Chick Hearn Ct Los Angeles California USA', 7100),  
    ('Zappos Theater', '3667 S Las Vegas Blvd Las Vegas USA', 7000),  
    ('Nokia Theater Live', '230 Bird Barn Ct Los Angeles California', 3500),  
    ('Sven Theater', '3101 Sizzlin Road Los Angeles California', 7000),  
    ('The AXIS Theater', '3330 Palm Avenue Los Angeles California', 7100);
```

```
INSERT INTO AwardCeremony(viewer_count, date, venue_name)
```

## University of British Columbia, Vancouver

### Department of Computer Science

#### VALUES

```
(2601, '2013-12-09', 'Zappos Theater'),  
(3087, '2014-12-10', 'Sven Theater'),  
(8900, '2019-12-02', 'Nokia Theater. Live'),  
(13423, '2020-12-11', 'The Axis Theater'),  
(33683, '2021-12-09', 'Microsoft Theater'),  
(63683, '2022-12-11', 'Microsoft Theater');
```

INSERT INTO Staff(phone\_number, name, id, role)

#### VALUES

```
(6132350112, 'Jeffrey Lovegood', 10000, 'Producer'),  
(6135550192, 'Maria Salt', 11103, 'Presentor'),  
(6223450192, 'Kamila Butter', 12103, 'Presentor'),  
(6225650177, 'John Pink', 13103, 'Presentor'),  
(6115001232, 'John Pool', 11190, 'Producer Assistant'),  
(6131110152, 'Tommy Nook', 11111, 'Marketing'),  
(2388631123, 'Lizzy Fox', 10100, 'Communications Director'),  
(6115220352, 'Marshal Pepper', 40113, 'Communications Assistant'),  
(2374442346, 'Kurl Kem', 10235, 'Communications Director'),  
(4013333452, 'Shamsem Chumlo', 12355, 'Financing Management'),  
(1232224511, 'Sam Cho', 23122, 'Security and Safety'),  
(2234422455, 'Arjun Dhaliwal', 12245, 'Internal Jury'),  
(4122320485, 'Olivia Moon', 12431, 'Internal Jury'),  
(1344422123, 'Sam Person', 12456, 'Internal Jury'),  
(141-212-0435, 'Chris Amongus', 12436, 'Internal Jury');
```

INSERT INTO Company(name, contact\_info)

#### VALUES

```
('Red Bull Inc', 'sponsor@redbull.com'),  
( 'Nintendo of America', 'nintendoSponsor@ntdsponsor.com'),  
( 'Coca Cola Company', 'cocacolaUSA@communications.sponsor.com'),  
( 'Sony', 'sony.sponsorships@sony.com'),  
( 'Snapple Beverages', 'communications@snapple.com');
```

INSERT INTO Sponsors(company\_name, awardceremony\_date, money)

#### VALUES

```
('Red Bull Inc', '2013-12-09', 10000),  
( 'Nintendo of America', '2014-12-10', 5000),  
( 'Coca Cola Company', '2019-12-02', 5000),  
( 'Sony', '2020-12-11', 10000),  
( 'Snapple Beverages', '2021-12-09', 5000),  
( 'Sony', '2022-12-11', 5000);
```

## University of British Columbia, Vancouver

### Department of Computer Science

**INSERT INTO** LivestreamViewerCount(language, viewer\_count, name, awardceremony\_date)  
**VALUES**

```
('English', 2521, 'Youtube', 2013),  
( 'French', 1262, 'Youtube', 2013),  
( 'English', 3087, 'Youtube', 2014),  
( 'Polish', 1021, 'Twitch', 2019),  
( 'English', 2948, 'Twitch', 2019),  
( 'Spanish', 1042, 'Twitch', 2020),  
( 'Portuguese', 1345, 'Twitch', 2020),  
( 'English', 3423, 'Twitch', 2020),  
( 'English', 6423, 'Twitch', 2021),  
( 'English', 3423, 'Twitch', 2022),  
( 'English', 3683, 'Youtube', 2022);
```

**INSERT INTO** LivestreamUrl(url, language, name, awardceremony\_date)  
**VALUES**

```
('https://www.youtube.com/watch?v=jfKfPfyJRk/es', 'English', 'Youtube', 2013),  
( 'https://www.youtube.com/watch?v=sfKfqcvJRdk/fr', 'French', 'Youtube', 2013),  
( 'https://www.youtube.com/watch?v=KfPfyJRdk/en', 'English', 'Youtube', 2014),  
( 'https://www.twitch.tv/GP23/pl', 'Polish', 'Twitch', 2019),  
( 'https://www.twitch.tv/GA19/en', 'English', 'Twitch', 2019),  
( 'https://www.twitch.tv/GS20/sp', 'Spanish', 'Twitch', 2020),  
( 'https://www.twitch.tv/GP20/po', 'Portuguese', 'Twitch', 2020),  
( 'https://www.twitch.tv/GA20/en', 'English', 'Twitch', 2020),  
( 'https://www.twitch.tv/GA21/en', 'English', 'Twitch', 2021),  
( 'https://www.twitch.tv/GA22/en', 'English', 'Twitch', 2022),  
( 'https://www.youtube.com/watch?v=aPfyJRdk/en', 'English', 'Youtube', 2022);
```

**INSERT INTO** Award(name, prize, date, videogame\_title, videogame\_year)  
**VALUES**

```
('Best Music', 5000, '2013-12-09', 'Skyrim', 2013),  
( 'Best Storyline', 3000, '2014-12-10', 'Far Cry 4', 2014),  
( 'Best Action', 3000, '2020-12-11', 'Sekiro', 2019),  
( 'Best Art Direction', 1000, '2021-12-09', 'Death Stranding', 2021),  
( 'Game of the Year', 5000, '2019-12-02', 'The Legend of Zelda: Breath of the Wild', 2018),  
( 'Best Design', 1000, '2019-12-02', 'Spider-Man', 2018),  
( 'Best Debut', 1000, '2020-12-11', 'God of War', 2018),  
( 'Social Impact Award', 1000, '2019-12-02', 'Spider-Man', 2018),  
( 'Best Technology', 5000, '2022-12-11', 'It Takes Two', 2021),  
( 'Best Food', 1000, '2020-12-11', 'Assassins Creed Odyssey', 2019),  
( 'Best Animation', 5000, '2019-12-02', 'Far Cry 5', 2018),  
( 'Best Innovation', 5000, '2019-12-02', 'The Legend of Zelda: Breath of the Wild', 2018);
```

## University of British Columbia, Vancouver

### Department of Computer Science

INSERT INTO CommunityAward(votes, deadline, award\_name, award\_date)

VALUES

(2393, 2020-03-23, 'Best Action', '2020-12-11'),  
(3002, 2020-03-23, 'Best Debut', '2020-12-11'),  
(3609, 2019-03-29, 'Social Impact Award', '2019-12-02'),  
(2093, 2014-03-22, 'Best Storyline', '2014-12-10'),  
(5403, 2019-03-27, 'Best Design', '2019-12-02');

INSERT INTO SponsoredAward(sponsor, award\_name, award\_date)

VALUES

('Bose', 'Best Music', '2013-12-09'),  
( 'Microsoft', 'Best Technology', '2022-12-11'),  
( 'McDonalds', 'Best Food', '2020-12-11'),  
( 'Adobe', 'Best Animation', '2019-12-02'),  
( 'Apple', 'Best Innovation', '2019-12-02');

INSERT INTO VideoGame\_DLC(title, year, videogame\_title, videogame\_year)

VALUES

('Dawnguard', 2014, 'Skyrim', 2013),  
( 'Hearthfire', 2013, 'Skyrim', 2013),  
( 'Dragonborn', 2014, 'Skyrim', 2013),  
( 'The Master Trials', 2019, 'The Legend of Zelda: Breath of the Wild', 2018),  
( 'The Champions Ballad', 2019, 'The Legend of Zelda: Breath of the Wild', 2018);

INSERT INTO VideoGame(title, year, genre, developer\_name)

VALUES

('Skyrim', 2013, 'Action role-playing', 'Bethesda Game Studios'),  
( 'Sekiro: Shadows Die Twice', 2019, 'Action-adventure', 'FromSoftware'),  
( 'Death Stranding', 2021, 'Action', 'Kojima Productions'),  
( 'The Legend of Zelda: Breath of the Wild', 2018, 'Action-adventure', 'Nintendo EPD'),  
( 'Spider-Man', 2018, 'Action-adventure', 'Insomniac Games'),  
( 'God of War', 2018, 'Action-adventure', 'Santa Monica Studio'),  
( 'Assassins Creed Odyssey', 2019, 'Action role-playing', 'Ubisoft Quebec'),  
( 'Far Cry 5', 2018, 'First-person shooter', 'Ubisoft Montreal'),  
( 'Far Cry 4', 2014, 'First-person shooter', 'Ubisoft Montreal'),  
( 'It Takes Two', 2021, 'Action-adventure', 'Insomniac Games');

INSERT INTO Staff\_AwardCeremony(staff\_id, awardceremony\_date)

VALUES

(10000, '2013-12-09'),  
(10000, '2014-12-10'),  
(10000, '2019-12-02'),

## University of British Columbia, Vancouver

### Department of Computer Science

```
(10000,'2020-12-11'),
(10000,'2021-12-09'),
(10000,'2022-12-11'),
(11103,'2013-12-09'),
(11103, '2014-12-10'),
(11103,'2019-12-02'),
(11103,'2020-12-11'),
(11103,'2021-12-09'),
(11103,'2022-12-11'),
(12103,'2013-12-09'),
(12103, '2014-12-10'),
(12103,'2019-12-02'),
(12103,'2020-12-11'),
(12103,'2021-12-09'),
(12103,'2022-12-11'),
(13103,'2020-12-11'),
(13103,'2021-12-09'),
(13103,'2022-12-11'),
(11190,'2021-12-09'),
(11111,'2020-12-11'),
(11111,'2021-12-09'),
(10100,'2013-12-09'),
(10100, '2014-12-10'),
(10100,'2019-12-02'),
(40113,'2021-12-09'),
(40113,'2022-12-11'),
(10235, '2014-12-10'),
(12355, '2022-12-11'),
(23122, '2022-12-11'),
(12245, '2022-12-11'),
(12431, '2022-12-11'),
(12456, '2022-12-11'),
(12436, '2022-12-11');
```

```
INSERT INTO DeveloperCountry(lead_developer, country)
VALUES
```

```
('Todd Howard', 'USA'),
('Hidetaka Miyazaki', 'Japan'),
('Hideo Kojima', 'Japan'),
('Shinya Takahashi', 'Japan'),
('Ted Price', 'Canada'),
('Yumi Yang', 'China'),
```

## University of British Columbia, Vancouver

Department of Computer Science

```
('Andree Cossette', 'France'),  
( 'Jason Vandenberghe', 'Germany');
```

**INSERT INTO** DeveloperName(lead\_developer, website, name)

**VALUES**

```
('Todd Howard', 'https://bethesda.game.studios.com/', 'Bethesda Game Studio'),  
( 'Hidetaka Miyazaki', 'https://www.fromsoftware.jp/ww/', 'FromSoftware'),  
( 'Hideo Kojima', 'https://kojima-productions.jp/', 'Kojima Productions'),  
( 'Shinya Takahashi', 'https://www.nintendo.com/en-ca/', 'Nintendo EPD'),  
( 'Ted Price', 'https://insomniac.games/', 'Insomniac Games'),  
( 'Yumi Yang', 'https://sms.playstation.com/', 'Santa Monica Studios'),  
( 'Andree Cossette', 'https://quebec.ubisoft.com/en/', 'Ubisoft Quebec'),  
( 'Jason Vandenberghe', 'https://montreal.ubisoft.com/en/', 'Ubisoft Montreal');
```

University of British Columbia, Vancouver  
Department of Computer Science

