University of British Columbia, Department of Computer Science

CPSC 304

Summer 2018

Project Part ER Diagrams and Schemas

Group Members:

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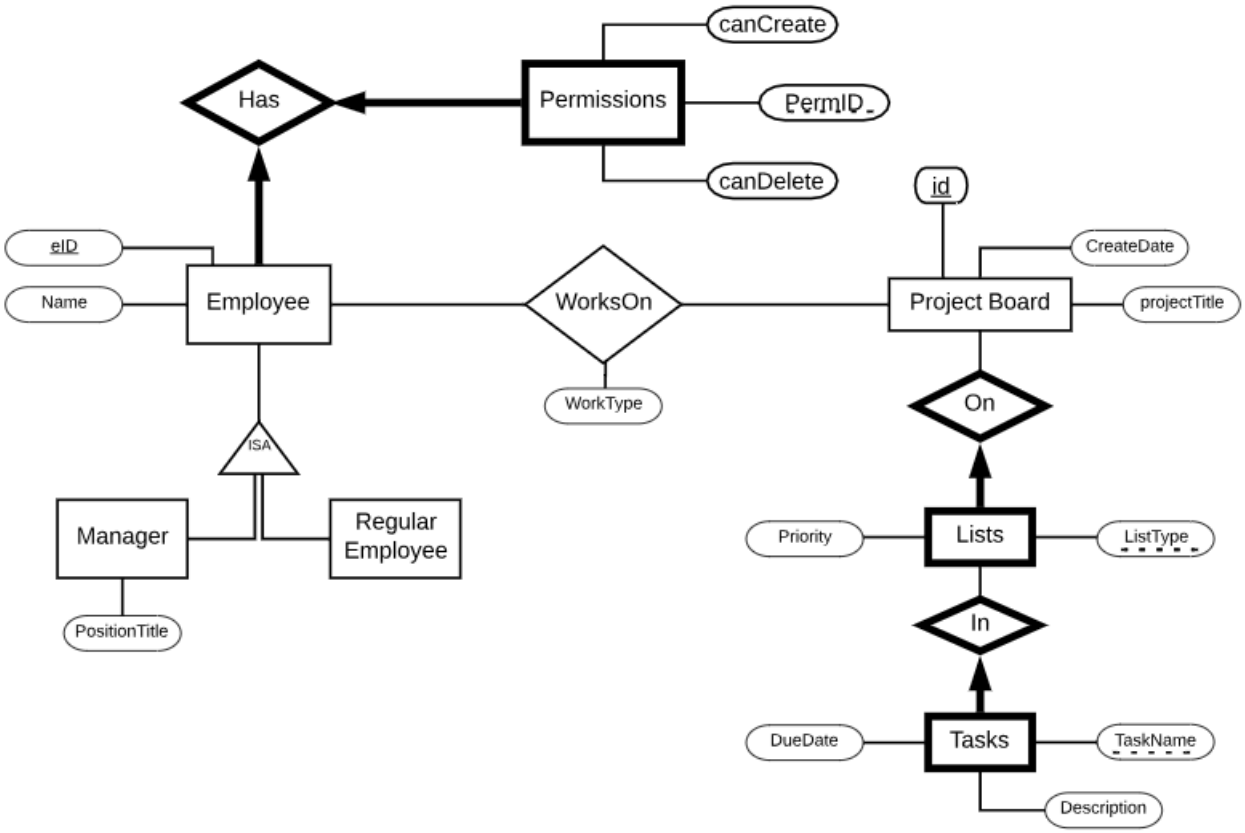
By typing our names and student numbers in the above table, we certify that the work in the attached assignment was performed solely by those whose names and student IDs are included above.

In 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




```
CREATE TABLE Employee(
        int eID PRIMARY KEY,
        char(20) Name,
        int permID UNIQUE NOT NULL,
        FOREIGN KEY (permID) REFERENCES Permissions(PermID)
        ON DELETE CASCADE
        )

CREATE TABLE Manager(
        Int eID PRIMARY KEY,
        char(20) Name,
        char(20) PositionTitle,
        FOREIGN KEY eID REFERENCES Employee(eID),
        FOREIGN KEY Name REFERENCES Employee(Name),
        ON DELETE CASCADE
        )
```

```
CREATE TABLE RegularW(
        Int eID PRIMARY KEY,
        char(20) Name,
        FOREIGN KEY eID REFERENCES Employee(eID),
        FOREIGN KEY Name REFERENCES Employee(Name),
        ON DELETE CASCADE)

CREATE TABLE WorksOn(
        Int pID,
        Int eID,
        PRIMARY KEY (pID, eID),
        FOREIGN KEY pID REFERENCES ProjectBoard(pID),
`       FOREIGN KEY eID REFERENCES Employee(eID),
        )

CREATE TABLE ProjectBoard(
        Int pID PRIMARY KEY,
        datetime DateCreated,
        char(20) Title
        )

CREATE TABLE List(
        int pID,
        int ListID,
        char(20) ListTitle,
        PRIMARY KEY (pID, ListID),
        FOREIGN KEY pID REFERENCES ProjectBoard(pID)
        )

CREATE TABLE Task(
        int pID,
        int ListID,
        int TaskID,
        char(20) TaskTitle,
        PRIMARY KEY (pID, ListID, TaskID),
        FOREIGN KEY pID REFERENCES ProjectBoard(pID),
        FOREIGN KEY ListID REFERENCES List(ListID)
        )

CREATE TABLE Permissions(
        Int eID UNIQUE,
        Int PermID,
        Boolean canCreate,
        Boolean canDelete,
        PRIMARY KEY (eID, PermID),
        FOREIGN KEY eID REFERENCES Employee(eID),
        )
```

Employee

Eid	Name	permID
1001	Devon Kenzie	0001
1002	Jenny Huang	0002
1003	Jamie Polintan	0003
0001	Patrice Belleville	0101
0002	Gregor Kiczales	0102

Manager

eID	Name	PositionTitle
0001	Patrice Belleville	Manager
0002	Gregor Kiczales	Manager
0003	Celina Berg	Manager
0004	Cinda Heeren	Manager
0005	Paul Carter	Manager

RegularW

Eid	Name
1001	Devon Kenzie
1002	Jenny Huang
1003	Jamie Polintan
1004	Braedyn Kenzie
1005	Jason Xun

WorksOn

pID	eID
2001	1001
2002	1002
2003	0004
2004	1003
2005	0005

ProjectBoard

pID	DateCreated	Title
2001	2018-05-30 09:15:32	Midterm
2002	05.22	ProjectProposal
2003	06.01	ERDiagramsAndSchemas
2004	06.08	ProjectFormalSpecification
2005	06.18	IndividualReport

List

pID	**ListID**	**ListTitle**
2001	3001	ToDo
2001	3002	Done
2001	3003	Brainstorm
2002	3001	ToDo
2002	3002	Done

Task

pID	**ListID**	**TaskID**	**TaskTitle**
2001	3001	4001	CoverPage
2001	3001	4002	SQLDDL
2002	3002	4001	CoverPage
2003	3003	4003	Schema
2003	3003	4004	ERDiagram

Permission

eID	**permID**	**canCreate**	**canDelete**
1001	0001	0	0
1002	0002	0	0
1003	0003	0	0
0001	0101	1	1
0002	0102	1	1

Employee(eID: int, name: string, **permID:** int)
Manager(**eID:**int, Name:string, positionTitle:string)
RegularW(**eID**:int, Name:string)
WorksOn(**pID**:int, **eID**:int)
ProjectBoard(ProjID:int, Title:string, DateCreated:datetime)
List(**pid**:int, ListID:int, ListTitle:string)
Task(**pID**:int, **ListID**:int, TaskID:int, taskTitle:string)
Permissions(**eID**:int, permID:int, canCreate:Boolean, canDelete:Boolean)

***foreign key**
***primary key**