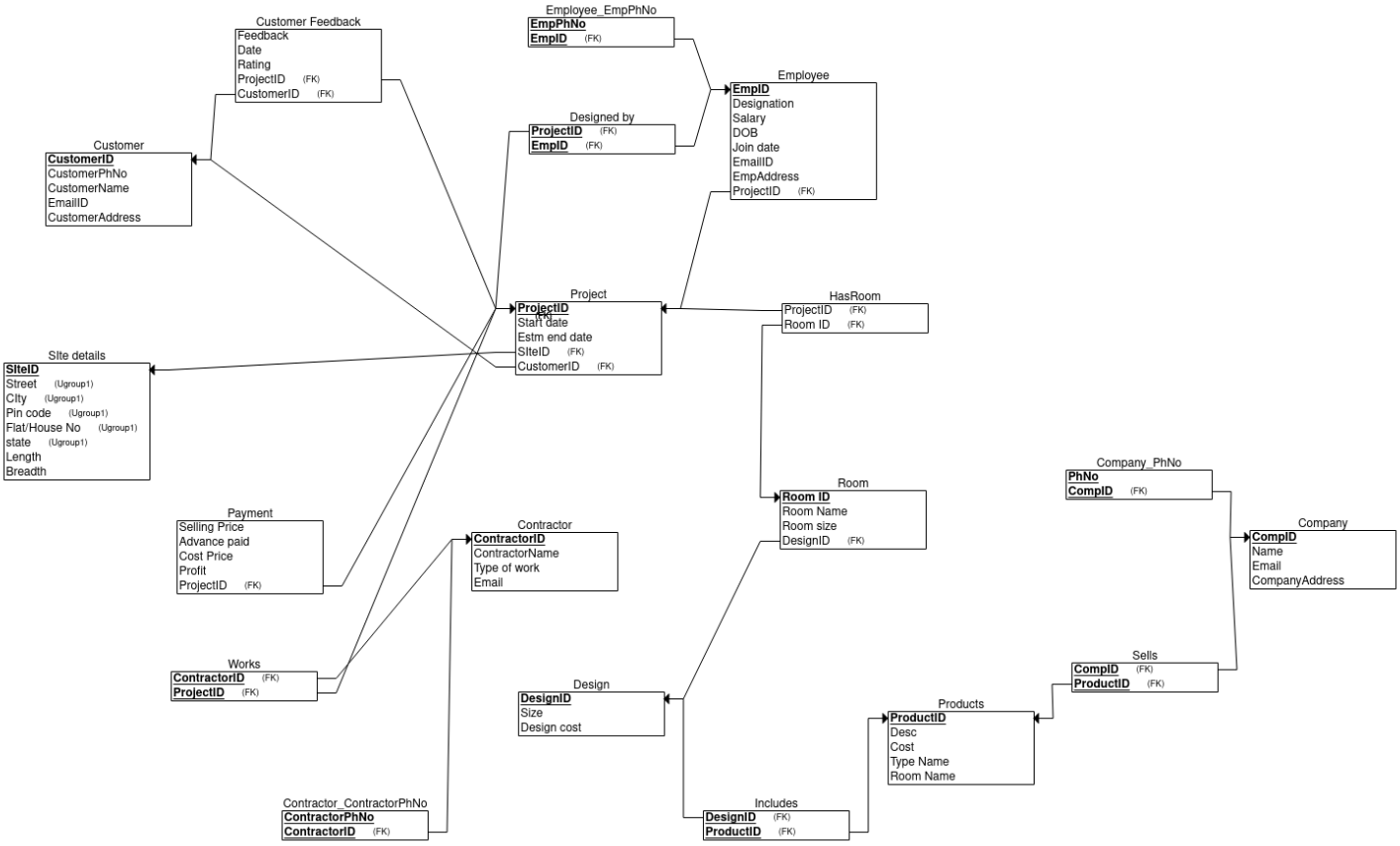
ASSIGNMENT - 2

1. Mapping conceptual schema to relational schema



2. Justifying the choice of model

The model chosen here is Relational database. This model fits the needs of the project adequately and fulfills the requirements needed from the model. Since the schema of the project is fixed and the need for change in the schema is minimal, RDBMS model has been preferred over NoSQL model.

Few advantages of RDBMS model that benefits the project are:

a. Checking for constraints: We have inbuilt support from the model to check for certain explicit constraints, such as
   - Null constraints
   - Unique constraints
   - Primary key constraints

- Foreign key constraints
- Domain constraints
- Integrity constraints

The above mentioned constraints are useful for the project, as it will help ensure there is no discrepancy in the data. For example, it will help ensure that each project is uniquely identifiable.

b. Flexibility

This feature of RDBMS saves a lot of time as updating data in one place is enough. For example, if we update one project, then it is updated in all files through their relationships (i.e. foreign keys). We do not need to individually update each.

c. Maintainability

It provides easy usability. It allows database admins to maintain, control, update data into the database easily. With RDBMS, backing up the data becomes easy. Automation tools of RBDMS automate these tasks.

3. Specific implementation to be used

The implementation we are using for the project is PostgreSQL. It is an enterprise-class open source database management system. It supports both SQL and JSON for relational and non-relational queries for extensibility and SQL compliance. PostgreSQL supports advanced data types and performance optimization features.

Postgres version installed - 13

4. Create commands

Create.sql:

```
create table project(
 projectID serial,
 siteID int not null,
 customerID int not null,
 startDate date,
 estimatedEndDate date check(estimatedEndDate > startDate),
 primary key (projectID)
);

create table employee(
 employeeID serial,
```

```
 empEmailID varchar(30),
 empAddress text,
 designation varchar(30),
 salary decimal check (salary > '15000'),
 dob date check(date_part('year',AGE(CURRENT_DATE,dob))>18),
 joinDate date check(joinDate > dob),
 projectID int,
 primary key (employeeID),
 FOREIGN KEY(projectID) REFERENCES project(projectID)
);

create table empPhNo(
 employeeID int,
 empPhNo varchar(10) unique,
 primary key(employeeID,empPhNo),
 FOREIGN KEY(employeeID) REFERENCES employee(employeeID)
);

create table designedBy(
 projectID int,
 employeeID int,
 primary key(projectID,employeeID),
 FOREIGN KEY(projectID) REFERENCES project(projectID),
 FOREIGN KEY(employeeID) REFERENCES employee(employeeID)
);

create table customer(
 customerID serial primary key,
 customerName varchar(30),
 customerPhNo varchar(10),
 customerEmailID varchar(30),
 customerAddress text
);

create table customerFeedback(
 customerID int,
 projectID int,
 feedback text,
 feedbackDate date,
 rating numeric(1) check (rating>=1 and rating<=5),
 FOREIGN KEY(projectID) REFERENCES project(projectID),
 FOREIGN KEY(customerID) REFERENCES customer(customerID)
```

```
);

create table design(
 designID serial,
 designCost decimal check (designCost>0),
 size char check(size IN ('S','M','L')),
 primary key (designID)
);

create table room(
 roomID serial,
 roomName varchar(30) not null,
 roomSize char check(roomSize IN('S','M','L')),
 designID int,
 primary key (roomID),
 FOREIGN KEY(designID) REFERENCES design(designID)
);

create table hasRoom(
 projectID int,
 roomID int,
 FOREIGN KEY(projectID) REFERENCES project(projectID),
 FOREIGN KEY(roomID) REFERENCES room(roomID)
);

create table product(
 productID serial,
 typeName varchar(30),
 roomName varchar(30),
 productCost decimal check(productCost>0),
 description text not null,
 primary key (productID)
);

create table designIncludesProducts(
 designID int,
 productID int,
 primary key (designID,productID),
 FOREIGN KEY(designID) REFERENCES design(designID),
 FOREIGN KEY(productID) REFERENCES product(productID)
);
```

```
create table siteDetails(
 siteID serial,
 houseNo varchar(10) not null,
 street text not null,
 pincode varchar(6) not null,
 city varchar(30) not null,
 state varchar(10),
 length decimal not null check(length>0),
 breadth decimal not null check(breadth>0),
 primary key(siteID)
);

create table payment(
 costPrice decimal check(costPrice>0),
 sellingPrice decimal check(sellingPrice>0 and sellingPrice-15000 >= costPrice),
 advancePaid decimal check(advancePaid< sellingPrice),
 profit decimal check(profit > 0),
 projectId int not null,
 FOREIGN KEY(projectID) REFERENCES project(projectID)
);

create table contractor(
 contractorID serial,
 contractorName varchar(30) not null,
 typeOfWork varchar(30) not null,
 contractorEmail varchar(30),
 primary key (contractorID)
);

create table contractorPhNo(
 contractorID int,
 contractorPhNo varchar(12) unique,
 primary key(contractorID,contractorPhNo),
 FOREIGN KEY(contractorID) REFERENCES contractor(contractorID)
);

create table works(
 contractorID int,
 projectID int,
 primary key(contractorID,projectID),
 FOREIGN KEY(projectID) REFERENCES project(projectID),
 FOREIGN KEY(contractorID) REFERENCES contractor(contractorID)
```

```
);

create table company(
 companyID serial,
 companyName varchar(30) not null,
 companyEmailID varchar(30),
 companyAddress text,
 primary key (companyID)
);

create table companyPhNo(
 companyID int,
 companyPhNo varchar(12) unique,
 primary key (companyID,companyPhNo),
 FOREIGN KEY(companyID) REFERENCES company(companyID)
);

create table sells(
 companyID int,
 productID int,
 primary key (companyID,productID)
);

alter table project
ADD FOREIGN KEY(siteID) REFERENCES SiteDetails(siteID);

alter table project
ADD FOREIGN KEY(customerID) REFERENCES customer(customerID);
```

5. Insert commands: ***insert.sql***

SiteDetails

insert into siteDetails (houseNo, street, pincode, city, state, length, breadth) values (20, '1 Gina Pass', 560013, 'Davangere', 'Karnataka', 65, 47);
insert into siteDetails (houseNo, street, pincode, city, state, length, breadth) values (12, '88053 Arapahoe Alley', 560041, 'Davangere', 'Karnataka', 71, 59);
insert into siteDetails (houseNo, street, pincode, city, state, length, breadth) values (15, '9 Myrtle Junction', 560029, 'Davangere', 'Karnataka', 91, 79);
insert into siteDetails (houseNo, street, pincode, city, state, length, breadth) values (2, '6 Novick Point', 560004, 'Dhaarwad', 'Karnataka', 53, 76);
insert into siteDetails (houseNo, street, pincode, city, state, length, breadth) values (5, '3676 Muir Junction', 560052, 'Bangalore', 'Karnataka', 72, 67);
insert into siteDetails (houseNo, street, pincode, city, state, length, breadth) values (7, '08604 Stone Corner Alley', 560063, 'Shimoga', 'Karnataka', 58, 82);
insert into siteDetails (houseNo, street, pincode, city, state, length, breadth) values (19, '512 Marcy Road', 560050, 'Shimoga', 'Karnataka', 76, 59);
insert into siteDetails (houseNo, street, pincode, city, state, length, breadth) values (17, '73 Spohn Circle', 560007, 'Shimoga', 'Karnataka', 94, 63);
insert into siteDetails (houseNo, street, pincode, city, state, length, breadth) values (6, '8 Becker Way', 560019, 'Mysore', 'Karnataka', 84, 70);
insert into siteDetails (houseNo, street, pincode, city, state, length, breadth) values (16, '90539 Milwaukee Terrace', 560010, 'Shimoga', 'Karnataka', 75, 81);
insert into siteDetails (houseNo, street, pincode, city, state, length, breadth) values (7, '14788 Helena Alley', 560034, 'Dhaarwad', 'Karnataka', 50, 61);
insert into siteDetails (houseNo, street, pincode, city, state, length, breadth) values (12, '766 Anzinger Crossing', 600018, 'Chennai', 'Tamil Nadu', 82, 72);
insert into siteDetails (houseNo, street, pincode, city, state, length, breadth) values (10, '64 Farragut Lane', 600042, 'Chennai', 'Tamil Nadu', 56, 68);
insert into siteDetails (houseNo, street, pincode, city, state, length, breadth) values (6, '6 Harper Plaza', 600021, 'Coimbatore', 'Tamil Nadu', 67, 55);
insert into siteDetails (houseNo, street, pincode, city, state, length, breadth) values (8, '6 Tomscot Place', 600092, 'Chennai', 'Tamil Nadu', 75, 56);
insert into siteDetails (houseNo, street, pincode, city, state, length, breadth) values (16, '01076 Fair Oaks Pass', 600086, 'Chennai', 'Tamil Nadu', 89, 42);
insert into siteDetails (houseNo, street, pincode, city, state, length, breadth) values (1, '59628 Mesta Drive', 600073, 'Madurai', 'Tamil Nadu', 98, 57);
insert into siteDetails (houseNo, street, pincode, city, state, length, breadth) values (7, '852 Vermont Road', 600048, 'Madurai', 'Tamil Nadu', 62, 85);

insert into siteDetails (houseNo, street, pincode, city, state, length, breadth) values (1, '87593 Coolidge Lane', 600047, 'Selam', 'Tamil Nadu', 58, 51);
insert into siteDetails (houseNo, street, pincode, city, state, length, breadth) values (9, '62 Cottonwood Trail', 600007, 'Chennai', 'Tamil Nadu', 75, 44);
insert into siteDetails (houseNo, street, pincode, city, state, length, breadth) values (2, '722 Kennedy Circle', 600091, 'Madurai', 'Tamil Nadu', 53, 41);

Customer

insert into customer (customerName, customerPhNo, customerEmailID, customerAddress) values ('Chrissie Abrashkov', '3807494004', 'cabrashkov0@shinystat.com', '2348 Mosinee Terrace');
insert into customer (customerName, customerPhNo, customerEmailID, customerAddress) values ('Cecile Larver', '9018134954', 'clarver1@cnet.com', '356 Corben Drive');
insert into customer (customerName, customerPhNo, customerEmailID, customerAddress) values ('Lissie Stoven', '1116433068', 'lstoven2@japanpost.jp', '2 Mitchell Park');
insert into customer (customerName, customerPhNo, customerEmailID, customerAddress) values ('Laure Hodcroft', '1284421832', 'lhodcroft3@prnewswire.com', '0944 Doe Crossing Terrace');
insert into customer (customerName, customerPhNo, customerEmailID, customerAddress) values ('Caro Tye', '1991655175', 'ctye4@examiner.com', '82 Nevada Way');
insert into customer (customerName, customerPhNo, customerEmailID, customerAddress) values ('Fayth Pallin', '4718119269', 'fpallin5@booking.com', '0970 Pine View Avenue');
insert into customer (customerName, customerPhNo, customerEmailID, customerAddress) values ('Frank Dever', '5678798062', 'fdever6@examiner.com', '074 Graceland Circle');
insert into customer (customerName, customerPhNo, customerEmailID, customerAddress) values ('Shea Harmon', '6491223571', 'sharmon7@addtoany.com', '5 Crest Line Drive');
insert into customer (customerName, customerPhNo, customerEmailID, customerAddress) values ('Marcello Macon', '2723889983', 'mmacon8@wikimedia.org', '1801 Harper Road');
insert into customer (customerName, customerPhNo, customerEmailID, customerAddress) values ('Maxie Vicary', '5466203517', 'mvicary9@hatena.ne.jp', '74333 Mallard Road');
insert into customer (customerName, customerPhNo, customerEmailID, customerAddress) values ('Rayshell Cashin', '2027998159', 'rcashina@wsj.com', '674 Sachtjen Plaza');
insert into customer (customerName, customerPhNo, customerEmailID, customerAddress) values ('Arabelle Squibbes', '6551228731', 'asquibbesb@woothemes.com', '612 Hudson Road');
insert into customer (customerName, customerPhNo, customerEmailID, customerAddress) values ('Bren Chessel', '7992513221', 'bchesselc@vk.com', '2793 Spohn Junction');

```
insert into customer (customerName, customerPhNo, customerEmailID, customerAddress)
values ('Kathryn Sinkin', '1559144223', 'ksinkind@github.com', '3 Dapin Crossing');
insert into customer (customerName, customerPhNo, customerEmailID, customerAddress)
values ('Corette Cass', '2346219271', 'ccasse@rambler.ru', '4183 1st Street');
insert into customer (customerName, customerPhNo, customerEmailID, customerAddress)
values ('Loleta Sutliff', '8479403715', 'lsutlifff@slideshare.net', '838 Bobwhite Junction');
insert into customer (customerName, customerPhNo, customerEmailID, customerAddress)
values ('Noel Lovekin', '9271883243', 'nloveking@flavors.me', '1 Bartelt Crossing');
insert into customer (customerName, customerPhNo, customerEmailID, customerAddress)
values ('Sally Allcoat', '7619735980', 'sallcoath@nhs.uk', '65 Scott Place');
insert into customer (customerName, customerPhNo, customerEmailID, customerAddress)
values ('Rosalinda Boord', '8514148789', 'rboordi@imageshack.us', '57243 Fuller Place');
insert into customer (customerName, customerPhNo, customerEmailID, customerAddress)
values ('Phaedra Monk', '7342930039', 'pmonkj@creativecommons.org', '6041 Nobel Park');
```

Project

```
insert into project (siteID, customerID, startDate, estimatedEndDate) values (1, 1,
'2020/11/05', '2023/04/01');
insert into project (siteID, customerID, startDate, estimatedEndDate) values (2, 2,
'2021/03/13', '2022/02/06');
insert into project (siteID, customerID, startDate, estimatedEndDate) values (3, 3,
'2021/10/07', '2023/01/22');
insert into project (siteID, customerID, startDate, estimatedEndDate) values (4, 4,
'2020/10/11', '2023/05/23');
insert into project (siteID, customerID, startDate, estimatedEndDate) values (5, 5,
'2021/01/16', '2023/08/17');
insert into project (siteID, customerID, startDate, estimatedEndDate) values (6, 6,
'2021/05/27', '2022/01/31');
insert into project (siteID, customerID, startDate, estimatedEndDate) values (7, 7,
'2021/05/29', '2023/08/26');
insert into project (siteID, customerID, startDate, estimatedEndDate) values (8, 8,
'2021/04/03', '2023/06/15');
insert into project (siteID, customerID, startDate, estimatedEndDate) values (9, 9,
'2021/03/26', '2022/12/01');
insert into project (siteID, customerID, startDate, estimatedEndDate) values (10, 10,
'2021/08/01', '2023/07/13');
insert into project (siteID, customerID, startDate, estimatedEndDate) values (11, 11,
'2021/07/18', '2022/11/12');
insert into project (siteID, customerID, startDate, estimatedEndDate) values (12, 12,
'2021/03/23', '2022/07/03');
```

insert into project (siteID, customerID, startDate, estimatedEndDate) values (13, 13, '2021/03/12', '2022/11/17');
insert into project (siteID, customerID, startDate, estimatedEndDate) values (14, 14, '2021/08/11', '2022/10/31');
insert into project (siteID, customerID, startDate, estimatedEndDate) values (15, 15, '2020/12/16', '2022/09/25');
insert into project (siteID, customerID, startDate, estimatedEndDate) values (16, 16, '2021/08/08', '2022/02/18');
insert into project (siteID, customerID, startDate, estimatedEndDate) values (17, 17, '2020/11/03', '2022/03/02');
insert into project (siteID, customerID, startDate, estimatedEndDate) values (18, 18, '2020/11/14', '2023/04/16');
insert into project (siteID, customerID, startDate, estimatedEndDate) values (19, 19, '2021/08/24', '2022/09/26');
insert into project (siteID, customerID, startDate, estimatedEndDate) values (20, 20, '2021/03/26', '2022/05/26');

Employee

insert into employee (empEmailID, empAddress, designation, salary, dob, joinDate, projectID) values ('fdiprosej@yelp.com', '61 Commercial Place', 'CEO', 367622, '1962/09/25', '2019/10/05', 6);
insert into employee (empEmailID, empAddress, designation, salary, dob, joinDate, projectID) values ('dpllui@w3.org', '91293 Sutteridge Drive', 'VP', 272084, '1992/06/27', '2012/03/13', 2);
insert into employee (empEmailID, empAddress, designation, salary, dob, joinDate, projectID) values ('thallowesc@addtoany.com', '93398 Melby Lane', 'Marketing', 181384, '1993/04/01', '2019/10/12', 20);
insert into employee (empEmailID, empAddress, designation, salary, dob, joinDate, projectID) values ('bpocklington6@hostgator.com', '64379 Northland Junction', 'HR', 151331, '1977/07/03', '2020/01/11', 2);
insert into employee (empEmailID, empAddress, designation, salary, dob, joinDate, projectID) values ('chelkin1@chicagotribune.com', '005 Sage Avenue', 'Project Manager', 193978, '1987/09/16', '2012/08/01', 8);
insert into employee (empEmailID, empAddress, designation, salary, dob, joinDate, projectID) values ('nbortoluttia@usatoday.com', '339 Center Avenue', 'Project Manager', 171060, '2001/06/27', '2021/01/29', 11);
insert into employee (empEmailID, empAddress, designation, salary, dob, joinDate, projectID) values ('thoofeb@redcross.org', '80 Hoard Junction', 'Project Manager', 172729, '1978/04/10', '2020/04/18', 7);

```
insert into employee (empEmailID, empAddress, designation, salary, dob, joinDate,
projectID) values ('mpesseltd@is.gd', '81002 Dakota Point', 'Project Manager', 186127,
'1971/07/09', '2014/02/01', 3);
insert into employee (empEmailID, empAddress, designation, salary, dob, joinDate,
projectID) values ('ajager7@typepad.com', '3850 Surrey Hill', 'Project Manager', 189215,
'1965/09/28', '2010/12/18', 20);
insert into employee (empEmailID, empAddress, designation, salary, dob, joinDate,
projectID) values ('kgini5@pen.io', '79 Stephen Lane', 'Project Manager', 167673,
'1963/08/08', '2017/11/03', 1);
insert into employee (empEmailID, empAddress, designation, salary, dob, joinDate,
projectID) values ('dcliss0@merriam-webster.com', '429 Golf View Park', 'Sr Designer',
188329, '1971/07/05', '2019/05/25', 7);
insert into employee (empEmailID, empAddress, designation, salary, dob, joinDate,
projectID) values ('tsonschein2@scribd.com', '4 Burning Wood Alley', 'Sr Designer', 169527,
'1990/05/04', '2020/09/03', 12);
insert into employee (empEmailID, empAddress, designation, salary, dob, joinDate,
projectID) values ('aroncellig@goo.ne.jp', '89 Tennyson Center', 'Sr Designer', 186231,
'1961/12/23', '2021/05/09', 17);
insert into employee (empEmailID, empAddress, designation, salary, dob, joinDate,
projectID) values ('ggurnellf@cnn.com', '045 Roxbury Way', 'Sr Designer', 204049,
'1963/02/15', '2015/03/24', 1);
insert into employee (empEmailID, empAddress, designation, salary, dob, joinDate,
projectID) values ('dpaur8@newyorker.com', '3220 Hallows Court', 'Sr Designer', 188834,
'1986/10/06', '2018/12/06', 13);
insert into employee (empEmailID, empAddress, designation, salary, dob, joinDate,
projectID) values ('svase3@miibeian.gov.cn', '6 4th Drive', 'Jr Designer', 115447,
'1966/04/11', '2010/10/23', 8);
insert into employee (empEmailID, empAddress, designation, salary, dob, joinDate,
projectID) values ('pbassingham4@hostgator.com', '3 Northland Parkway', 'Jr Designer',
120301, '1966/05/07', '2014/04/19', 3);
insert into employee (empEmailID, empAddress, designation, salary, dob, joinDate,
projectID) values ('lcasaccio9@goo.ne.jp', '7 Spaight Parkway', 'Jr Designer', 130554,
'1998/08/25', '2013/01/23', 17);
insert into employee (empEmailID, empAddress, designation, salary, dob, joinDate,
projectID) values ('sshillabearee@biblegateway.com', '2400 Sherman Junction', 'Jr
Designer', 150038, '1976/05/16', '2012/05/17', 14);
insert into employee (empEmailID, empAddress, designation, salary, dob, joinDate,
projectID) values ('vhabronh@opera.com', '593 Paget Alley', 'Jr Designer', 148947,
'1988/04/12', '2017/12/17', 11);
```

EmpPhNo

```
insert into empPhNo (employeeID, empPhNo) values (1, '3249473743');
insert into empPhNo (employeeID, empPhNo) values (1, '3249473043');
insert into empPhNo (employeeID, empPhNo) values (1, '3249473443');
insert into empPhNo (employeeID, empPhNo) values (2, '9483188761');
insert into empPhNo (employeeID, empPhNo) values (3, '6058692497');
insert into empPhNo (employeeID, empPhNo) values (4, '5051928234');
insert into empPhNo (employeeID, empPhNo) values (5, '1577566661');
insert into empPhNo (employeeID, empPhNo) values (4, '5051920234');
insert into empPhNo (employeeID, empPhNo) values (5, '1577565661');
insert into empPhNo (employeeID, empPhNo) values (6, '2526579903');
insert into empPhNo (employeeID, empPhNo) values (7, '2595139359');
insert into empPhNo (employeeID, empPhNo) values (8, '6064115649');
insert into empPhNo (employeeID, empPhNo) values (9, '5541450266');
insert into empPhNo (employeeID, empPhNo) values (8, '6064115640');
insert into empPhNo (employeeID, empPhNo) values (9, '5541450260');
insert into empPhNo (employeeID, empPhNo) values (10, '4496534637');
insert into empPhNo (employeeID, empPhNo) values (11, '1118071552');
insert into empPhNo (employeeID, empPhNo) values (12, '3502966412');
insert into empPhNo (employeeID, empPhNo) values (13, '9474385019');
insert into empPhNo (employeeID, empPhNo) values (14, '6096484412');
insert into empPhNo (employeeID, empPhNo) values (15, '6117193066');
insert into empPhNo (employeeID, empPhNo) values (16, '1017226938');
insert into empPhNo (employeeID, empPhNo) values (14, '6096404412');
insert into empPhNo (employeeID, empPhNo) values (15, '6117183066');
insert into empPhNo (employeeID, empPhNo) values (16, '1017236938');
insert into empPhNo (employeeID, empPhNo) values (17, '1739806621');
insert into empPhNo (employeeID, empPhNo) values (18, '7225087306');
insert into empPhNo (employeeID, empPhNo) values (19, '3166972661');
insert into empPhNo (employeeID, empPhNo) values (20, '6519072552');
insert into empPhNo (employeeID, empPhNo) values (1, '5649473743');
insert into empPhNo (employeeID, empPhNo) values (2, '9283188661');
insert into empPhNo (employeeID, empPhNo) values (3, '9058666497');
insert into empPhNo (employeeID, empPhNo) values (4, '5051928234');
insert into empPhNo (employeeID, empPhNo) values (5, '1577566661');
insert into empPhNo (employeeID, empPhNo) values (6, '4789252903');
insert into empPhNo (employeeID, empPhNo) values (7, '2534139359');
insert into empPhNo (employeeID, empPhNo) values (8, '6004115649');
```

DesignedBy

```
insert into designedBy (projectID, employeeID) values (1, 12);
insert into designedBy (projectID, employeeID) values (2, 11);
insert into designedBy (projectID, employeeID) values (3, 13);
insert into designedBy (projectID, employeeID) values (5, 15);
insert into designedBy (projectID, employeeID) values (7, 15);
insert into designedBy (projectID, employeeID) values (8, 18);
insert into designedBy (projectID, employeeID) values (8, 11);
insert into designedBy (projectID, employeeID) values (8, 16);
insert into designedBy (projectID, employeeID) values (9, 12);
insert into designedBy (projectID, employeeID) values (9, 11);
insert into designedBy (projectID, employeeID) values (9, 13);
insert into designedBy (projectID, employeeID) values (9, 20);
insert into designedBy (projectID, employeeID) values (11, 13);
insert into designedBy (projectID, employeeID) values (13, 14);
insert into designedBy (projectID, employeeID) values (14, 17);
insert into designedBy (projectID, employeeID) values (15, 16);
insert into designedBy (projectID, employeeID) values (16, 20);
insert into designedBy (projectID, employeeID) values (17, 18);
insert into designedBy (projectID, employeeID) values (19, 19);
insert into designedBy (projectID, employeeID) values (20, 20);
```

CustomerFeedback

```
insert into customerFeedback (customerID, projectID, feedback, feedbackDate, rating)
values (12, 11, 'Satisfied', '2020/10/25', 4.2);
insert into customerFeedback (customerID, projectID, feedback, feedbackDate, rating)
values (13, 10, 'totally worth it', '2020/12/17', 2.7);
insert into customerFeedback (customerID, projectID, feedback, feedbackDate, rating)
values (4, 7, 'Expensive furnishing', '2020/12/18', 3.2);
insert into customerFeedback (customerID, projectID, feedback, feedbackDate, rating)
values (13, 10, 'wonderful job', '2021/01/04', 2.6);
insert into customerFeedback (customerID, projectID, feedback, feedbackDate, rating)
values (16, 12, 'wonderful job', '2021/05/01', 2.0);
insert into customerFeedback (customerID, projectID, feedback, feedbackDate, rating)
values (2, 14, 'totally worth it', '2020/11/01', 2.1);
insert into customerFeedback (customerID, projectID, feedback, feedbackDate, rating)
values (12, 8, 'Satisfied', '2021/01/13', 1.2);
insert into customerFeedback (customerID, projectID, feedback, feedbackDate, rating)
values (9, 10, 'totally worth it', '2020/11/20', 1.9);
```

```
insert into customerFeedback (customerID, projectID, feedback, feedbackDate, rating)
values (6, 7, 'beautiful decor', '2021/04/24', 3.7);
insert into customerFeedback (customerID, projectID, feedback, feedbackDate, rating)
values (19, 18, 'great designs', '2021/06/27', 1.0);
insert into customerFeedback (customerID, projectID, feedback, feedbackDate, rating)
values (2, 15, 'Satisfied', '2021/08/11', 2.9);
insert into customerFeedback (customerID, projectID, feedback, feedbackDate, rating)
values (1, 8, 'totally worth it', '2020/11/23', 3.9);
insert into customerFeedback (customerID, projectID, feedback, feedbackDate, rating)
values (15, 6, 'great designs', '2021/05/03', 4.8);
insert into customerFeedback (customerID, projectID, feedback, feedbackDate, rating)
values (7, 12, 'beautiful decor', '2021/04/20', 3.9);
insert into customerFeedback (customerID, projectID, feedback, feedbackDate, rating)
values (1, 15, 'wonderful job', '2021/08/06', 1.3);
insert into customerFeedback (customerID, projectID, feedback, feedbackDate, rating)
values (5, 14, 'beautiful decor', '2021/07/24', 2.1);
insert into customerFeedback (customerID, projectID, feedback, feedbackDate, rating)
values (13, 7, 'totally worth it', '2021/05/14', 1.3);
insert into customerFeedback (customerID, projectID, feedback, feedbackDate, rating)
values (15, 1, 'beautiful decor', '2021/10/06', 2.2);
insert into customerFeedback (customerID, projectID, feedback, feedbackDate, rating)
values (10, 12, 'wonderful job', '2021/01/26', 2.9);
insert into customerFeedback (customerID, projectID, feedback, feedbackDate, rating)
values (8, 19, 'great designs', '2021/02/13', 2.0);
```

Design

```
insert into design (designCost, size) values (106876.79, 'S');
insert into design (designCost, size) values (99621.92, 'S');
insert into design (designCost, size) values (112222.62, 'L');
insert into design (designCost, size) values (105331.83, 'L');
insert into design (designCost, size) values (30450.01, 'S');
insert into design (designCost, size) values (36424.46, 'S');
insert into design (designCost, size) values (138053.00, 'L');
insert into design (designCost, size) values (79800.57, 'M');
insert into design (designCost, size) values (24396.51, 'S');
insert into design (designCost, size) values (54567.82, 'M');
insert into design (designCost, size) values (120758.99, 'L');
insert into design (designCost, size) values (123396.30, 'L');
insert into design (designCost, size) values (76152.35, 'M');
insert into design (designCost, size) values (52593.58, 'M');
insert into design (designCost, size) values (136907.16, 'L');
```

```
insert into design (designCost, size) values (135680.30, 'L');
insert into design (designCost, size) values (78143.61, 'M');
insert into design (designCost, size) values (31012.67, 'S');
insert into design (designCost, size) values (130554.53, 'L');
insert into design (designCost, size) values (102232.04, 'M');
```

Room

```
insert into room (roomName, roomSize, designID) values ('Dining Hall', 'L', 10);
insert into room (roomName, roomSize, designID) values ('Dining Hall', 'M', 16);
insert into room (roomName, roomSize, designID) values ('Bathroom', 'M', 12);
insert into room (roomName, roomSize, designID) values ('Kitchen', 'S', 5);
insert into room (roomName, roomSize, designID) values ('Bathroom', 'M', 10);
insert into room (roomName, roomSize, designID) values ('Dining Hall', 'S', 18);
insert into room (roomName, roomSize, designID) values ('Bedroom', 'S', 20);
insert into room (roomName, roomSize, designID) values ('Dining Hall', 'S', 15);
insert into room (roomName, roomSize, designID) values ('Living Room', 'M', 1);
insert into room (roomName, roomSize, designID) values ('Living Room', 'S', 3);
insert into room (roomName, roomSize, designID) values ('Bedroom', 'S', 4);
insert into room (roomName, roomSize, designID) values ('Living Room', 'L', 4);
insert into room (roomName, roomSize, designID) values ('Dining Hall', 'M', 7);
insert into room (roomName, roomSize, designID) values ('Bathroom', 'S', 6);
insert into room (roomName, roomSize, designID) values ('Living Room', 'L', 16);
insert into room (roomName, roomSize, designID) values ('Kitchen', 'M', 7);
insert into room (roomName, roomSize, designID) values ('Living Room', 'L', 19);
insert into room (roomName, roomSize, designID) values ('Kitchen', 'L', 6);
insert into room (roomName, roomSize, designID) values ('Dining Hall', 'S', 4);
insert into room (roomName, roomSize, designID) values ('Bathroom', 'M', 13);
insert into room (roomName, roomSize, designID) values ('Living Room', 'M', 17);
insert into room (roomName, roomSize, designID) values ('Dining Hall', 'S', 13);
insert into room (roomName, roomSize, designID) values ('Dining Hall', 'M', 6);
insert into room (roomName, roomSize, designID) values ('Bathroom', 'M', 9);
insert into room (roomName, roomSize, designID) values ('Dining Hall', 'M', 18);
```

HasRoom

```
insert into hasRoom (projectID, roomID) values (2, 13);
insert into hasRoom (projectID, roomID) values (1, 14);
insert into hasRoom (projectID, roomID) values (20, 11);
insert into hasRoom (projectID, roomID) values (3, 14);
insert into hasRoom (projectID, roomID) values (9, 20);
insert into hasRoom (projectID, roomID) values (13, 3);
```

```
insert into hasRoom (projectID, roomID) values (11, 10);
insert into hasRoom (projectID, roomID) values (4, 14);
insert into hasRoom (projectID, roomID) values (15, 12);
insert into hasRoom (projectID, roomID) values (7, 15);
insert into hasRoom (projectID, roomID) values (9, 4);
insert into hasRoom (projectID, roomID) values (6, 15);
insert into hasRoom (projectID, roomID) values (12, 19);
insert into hasRoom (projectID, roomID) values (15, 9);
insert into hasRoom (projectID, roomID) values (6, 17);
insert into hasRoom (projectID, roomID) values (20, 14);
insert into hasRoom (projectID, roomID) values (8, 1);
insert into hasRoom (projectID, roomID) values (5, 14);
insert into hasRoom (projectID, roomID) values (13, 9);
insert into hasRoom (projectID, roomID) values (17, 5);
```

Product

```
insert into product (typeName, roomName, productCost, description) values ('Study Table',
'Bedroom', 14905, 'Purple');
insert into product (typeName, roomName, productCost, description) values ('Study Table',
'Bedroom', 22896, 'Green');
insert into product (typeName, roomName, productCost, description) values ('Study Table',
'Bedroom', 16270, 'Orange');
insert into product (typeName, roomName, productCost, description) values ('Bed',
'Bedroom', 17183, 'Teal');
insert into product (typeName, roomName, productCost, description) values ('Bed',
'Bedroom', 13526, 'Pink');
insert into product (typeName, roomName, productCost, description) values ('Tile',
'Bathroom', 12262, 'Goldenrod');
insert into product (typeName, roomName, productCost, description) values ('Bathtub',
'Bathroom', 21665, 'Crimson');
insert into product (typeName, roomName, productCost, description) values ('Tap',
'Bathroom', 15325, 'Green');
insert into product (typeName, roomName, productCost, description) values ('Tap',
'Bathroom', 21819, 'Blue');
insert into product (typeName, roomName, productCost, description) values ('Shower',
'Bathroom', 10686, 'Khaki');
insert into product (typeName, roomName, productCost, description) values ('Exhaust Fan',
'Kitchen', 12149, 'Red');
insert into product (typeName, roomName, productCost, description) values ('Chimney',
'Kitchen', 13887, 'Crimson');
```

```
insert into product (typeName, roomName, productCost, description) values ('Oven', 'Kitchen', 22420, 'Turquoise');
insert into product (typeName, roomName, productCost, description) values ('Dining table', 'Dining Hall', 25594, 'Crimson');
insert into product (typeName, roomName, productCost, description) values ('Dining table', 'Dining Hall', 27014, 'Turquoise');
insert into product (typeName, roomName, productCost, description) values ('TV Stand', 'Living Hall', 17483, 'Turquoise');
insert into product (typeName, roomName, productCost, description) values ('Sofa', 'Living Hall', 20860, 'Pink');
insert into product (typeName, roomName, productCost, description) values ('Teapoy', 'Living Hall', 22373, 'Red');
insert into product (typeName, roomName, productCost, description) values ('Teapoy', 'Living Hall', 17933, 'Turquoise');
insert into product (typeName, roomName, productCost, description) values ('TV Stand', 'Living Hall', 17234, 'Violet');
```

DesignIncludesProducts

```
insert into designIncludesProducts (designID, productID) values (3, 2);
insert into designIncludesProducts (designID, productID) values (15, 13);
insert into designIncludesProducts (designID, productID) values (19, 1);
insert into designIncludesProducts (designID, productID) values (1, 9);
insert into designIncludesProducts (designID, productID) values (3, 13);
insert into designIncludesProducts (designID, productID) values (11, 20);
insert into designIncludesProducts (designID, productID) values (9, 4);
insert into designIncludesProducts (designID, productID) values (14, 10);
insert into designIncludesProducts (designID, productID) values (5, 15);
insert into designIncludesProducts (designID, productID) values (19, 11);
insert into designIncludesProducts (designID, productID) values (4, 13);
insert into designIncludesProducts (designID, productID) values (8, 15);
insert into designIncludesProducts (designID, productID) values (1, 12);
insert into designIncludesProducts (designID, productID) values (11, 13);
insert into designIncludesProducts (designID, productID) values (18, 7);
insert into designIncludesProducts (designID, productID) values (3, 5);
insert into designIncludesProducts (designID, productID) values (5, 5);
insert into designIncludesProducts (designID, productID) values (20, 5);
insert into designIncludesProducts (designID, productID) values (5, 18);
insert into designIncludesProducts (designID, productID) values (11, 1);
insert into designIncludesProducts (designID, productID) values (10, 13);
```

Payment

insert into payment (costPrice , sellingPrice, advancePaid, profit, projectID) values (50000,65000,25000,15000, 1);
insert into payment (costPrice , sellingPrice, advancePaid, profit, projectID) values (100000,150000,30000,50000, 2);
insert into payment (costPrice , sellingPrice, advancePaid, profit, projectID) values (60000,80000,15000,20000, 3);
insert into payment (costPrice , sellingPrice, advancePaid, profit, projectID) values (150000,195000,50000,45000, 4);
insert into payment (costPrice , sellingPrice, advancePaid, profit, projectID) values (100000,120000,40000,20000, 5);
insert into payment (costPrice , sellingPrice, advancePaid, profit, projectID) values (150000,200000,30000,50000, 6);
insert into payment (costPrice , sellingPrice, advancePaid, profit, projectID) values (60000,80000,50000,20000, 7);
insert into payment (costPrice , sellingPrice, advancePaid, profit, projectID) values (200000,250000,25000,50000,8);
insert into payment (costPrice , sellingPrice, advancePaid, profit, projectID) values (45000,70000,10000,25000,9);
insert into payment (costPrice , sellingPrice, advancePaid, profit, projectID) values (300000,345000,40000,45000,10);
insert into payment (costPrice , sellingPrice, advancePaid, profit, projectID) values (200000,225000,60000,22500,11);
insert into payment (costPrice , sellingPrice, advancePaid, profit, projectID) values (120000,140000,20000,20000,12);
insert into payment (costPrice , sellingPrice, advancePaid, profit, projectID) values (45000,60000,10000,15000,13);
insert into payment (costPrice , sellingPrice, advancePaid, profit, projectID) values (35000,50000,10000,15000,14);
insert into payment (costPrice , sellingPrice, advancePaid, profit, projectID) values (250000,280000,25000,30000,15);
insert into payment (costPrice , sellingPrice, advancePaid, profit, projectID) values (60000,85000,25000,25000,16);
insert into payment (costPrice , sellingPrice, advancePaid, profit, projectID) values (80000,100000,10000,20000,17);
insert into payment (costPrice , sellingPrice, advancePaid, profit, projectID) values (200000,230000,45000,30000,18);
insert into payment (costPrice , sellingPrice, advancePaid, profit, projectID) values (200000,250000,40000,50000,19);
insert into payment (costPrice , sellingPrice, advancePaid, profit, projectID) values (300000,345000,20000,45000,20);

Contractor

```
insert into contractor (contractorID, contractorName, typeOfWork, contractorEmail) values
(1, 'Arty', 'Plumber', 'awatson0@go.com');
insert into contractor (contractorID, contractorName, typeOfWork, contractorEmail) values
(2, 'Kikelia', 'Painter', 'kcrichmer1@irs.gov');
insert into contractor (contractorID, contractorName, typeOfWork, contractorEmail) values
(3, 'Billie', 'Carpenter', 'bmcmichell2@virginia.edu');
insert into contractor (contractorID, contractorName, typeOfWork, contractorEmail) values
(4, 'Ely', 'Painter', 'emellhuish3@commons.org');
insert into contractor (contractorID, contractorName, typeOfWork, contractorEmail) values
(5, 'Odelia', 'Carpenter', 'obinyon4@dailymotion.com');
insert into contractor (contractorID, contractorName, typeOfWork, contractorEmail) values
(6, 'Kylynn', 'Plumber', 'ktimms5@hud.gov');
insert into contractor (contractorID, contractorName, typeOfWork, contractorEmail) values
(7, 'Jorrie', 'Carpenter', 'jdunford6@home.pl');
insert into contractor (contractorID, contractorName, typeOfWork, contractorEmail) values
(8, 'Hobart', 'Plumber', 'hgeggus7@hostgator.com');
insert into contractor (contractorID, contractorName, typeOfWork, contractorEmail) values
(9, 'Mozelle', 'Carpenter', 'mfurley8@nba.com');
insert into contractor (contractorID, contractorName, typeOfWork, contractorEmail) values
(10, 'Candi', 'Carpenter', 'ctunna9@blogspot.com');
insert into contractor (contractorID, contractorName, typeOfWork, contractorEmail) values
(11, 'Nanete', 'Carpenter', 'nblankenshipa@ftc.gov');
insert into contractor (contractorID, contractorName, typeOfWork, contractorEmail) values
(12, 'Mel', 'Plumber', 'mtamplinb@stanford.edu');
insert into contractor (contractorID, contractorName, typeOfWork, contractorEmail) values
(13, 'Holli', 'Plumber', 'hstainingc@netscape.com');
insert into contractor (contractorID, contractorName, typeOfWork, contractorEmail) values
(14, 'Elvyn', 'Electrician', 'ebohlensd@xinhuanet.com');
insert into contractor (contractorID, contractorName, typeOfWork, contractorEmail) values
(15, 'Cchaddie', 'Electrician', 'crisebrowe@nifty.com');
insert into contractor (contractorID, contractorName, typeOfWork, contractorEmail) values
(16, 'Arlyn', 'Plumber', 'acoryndonf@mapquest.com');
insert into contractor (contractorID, contractorName, typeOfWork, contractorEmail) values
(17, 'Sidonia', 'Electrician', 'sretchfordg@hud.gov');
insert into contractor (contractorID, contractorName, typeOfWork, contractorEmail) values
(18, 'Tabby', 'Painter', 'tjaillerh@hexun.com');
insert into contractor (contractorID, contractorName, typeOfWork, contractorEmail) values
(19, 'Ami', 'Painter', 'acarratti@dell.com');
insert into contractor (contractorID, contractorName, typeOfWork, contractorEmail) values
(20, 'Ernest', 'Painter', 'esworderj@eepurl.com');
```

ContractorPhNo

```
insert into contractorPhNo (contractorID, contractorPhNo) values (1, '189-206-3558');
insert into contractorPhNo (contractorID, contractorPhNo) values (2, '394-371-7620');
insert into contractorPhNo (contractorID, contractorPhNo) values (3, '448-812-5184');
insert into contractorPhNo (contractorID, contractorPhNo) values (2, '394-371-7320');
insert into contractorPhNo (contractorID, contractorPhNo) values (3, '448-812-5384');
insert into contractorPhNo (contractorID, contractorPhNo) values (4, '787-745-9448');
insert into contractorPhNo (contractorID, contractorPhNo) values (5, '162-941-8989');
insert into contractorPhNo (contractorID, contractorPhNo) values (6, '654-612-8054');
insert into contractorPhNo (contractorID, contractorPhNo) values (7, '469-671-4837');
insert into contractorPhNo (contractorID, contractorPhNo) values (8, '179-551-0534');
insert into contractorPhNo (contractorID, contractorPhNo) values (9, '262-114-4802');
insert into contractorPhNo (contractorID, contractorPhNo) values (10, '577-224-7797');
insert into contractorPhNo (contractorID, contractorPhNo) values (11, '591-396-3544');
insert into contractorPhNo (contractorID, contractorPhNo) values (12, '883-569-6821');
insert into contractorPhNo (contractorID, contractorPhNo) values (13, '847-767-6239');
insert into contractorPhNo (contractorID, contractorPhNo) values (14, '208-897-7345');
insert into contractorPhNo (contractorID, contractorPhNo) values (15, '121-559-3963');
insert into contractorPhNo (contractorID, contractorPhNo) values (16, '825-582-9539');
insert into contractorPhNo (contractorID, contractorPhNo) values (17, '661-518-4318');
insert into contractorPhNo (contractorID, contractorPhNo) values (18, '723-734-9859');
insert into contractorPhNo (contractorID, contractorPhNo) values (19, '436-676-4065');
insert into contractorPhNo (contractorID, contractorPhNo) values (20, '286-555-2677');
insert into contractorPhNo (contractorID, contractorPhNo) values (7, '469-171-4837');
insert into contractorPhNo (contractorID, contractorPhNo) values (8, '179-151-0534');
insert into contractorPhNo (contractorID, contractorPhNo) values (9, '262-214-4802');
insert into contractorPhNo (contractorID, contractorPhNo) values (10, '577-124-7797');
insert into contractorPhNo (contractorID, contractorPhNo) values (7, '469-611-4837');
insert into contractorPhNo (contractorID, contractorPhNo) values (8, '179-511-0534');
insert into contractorPhNo (contractorID, contractorPhNo) values (9, '262-194-4802');
insert into contractorPhNo (contractorID, contractorPhNo) values (10, '577-004-7797');
```

Works

```
insert into works (contractorID, projectID) values (1, 1);
insert into works (contractorID, projectID) values (1, 2);
insert into works (contractorID, projectID) values (1, 3);
insert into works (contractorID, projectID) values (3, 2);
insert into works (contractorID, projectID) values (3, 3);
insert into works (contractorID, projectID) values (4, 4);
insert into works (contractorID, projectID) values (5, 5);
insert into works (contractorID, projectID) values (6, 6);
```

```
insert into works (contractorID, projectID) values (7, 7);
insert into works (contractorID, projectID) values (2, 4);
insert into works (contractorID, projectID) values (3, 5);
insert into works (contractorID, projectID) values (6, 4);
insert into works (contractorID, projectID) values (7, 1);
insert into works (contractorID, projectID) values (8, 8);
insert into works (contractorID, projectID) values (9, 9);
insert into works (contractorID, projectID) values (10, 10);
insert into works (contractorID, projectID) values (11, 11);
insert into works (contractorID, projectID) values (12, 12);
insert into works (contractorID, projectID) values (10, 11);
insert into works (contractorID, projectID) values (11, 9);
insert into works (contractorID, projectID) values (12, 10);
insert into works (contractorID, projectID) values (13, 13);
insert into works (contractorID, projectID) values (12, 14);
insert into works (contractorID, projectID) values (15, 15);
insert into works (contractorID, projectID) values (16, 12);
insert into works (contractorID, projectID) values (17, 12);
insert into works (contractorID, projectID) values (18, 18);
insert into works (contractorID, projectID) values (19, 20);
insert into works (contractorID, projectID) values (19, 19);
insert into works (contractorID, projectID) values (20, 19);
```

Company

```
insert into company (companyID, companyName, companyEmailID, companyAddress)
values (1, 'Yoveo', 'nnisen0@flavors.me', '8484 Stang Junction');
insert into company (companyID, companyName, companyEmailID, companyAddress)
values (2, 'Skippad', 'wstruther1@vistaprint.com', '3 Colorado Road');
insert into company (companyID, companyName, companyEmailID, companyAddress)
values (3, 'Gevee', 'roakenfield2@hc360.com', '3 Village Drive');
insert into company (companyID, companyName, companyEmailID, companyAddress)
values (4, 'Skyvu', 'mailward3@weather.com', '6784 Mitchell Street');
insert into company (companyID, companyName, companyEmailID, companyAddress)
values (5, 'Mymm', 'nlandon4@vistaprint.com', '3459 Stephen Road');
insert into company (companyID, companyName, companyEmailID, companyAddress)
values (6, 'Tazz', 'jbaum5@sina.com.cn', '0 Hoepker Alley');
insert into company (companyID, companyName, companyEmailID, companyAddress)
values (7, 'Edgetag', 'mgraeber6@blogtalkradio.com', '1627 Shelley Point');
insert into company (companyID, companyName, companyEmailID, companyAddress)
values (8, 'Skippad', 'pcastille7@qq.com', '952 Tennyson Road');
```

```
insert into company (companyID, companyName, companyEmailID, companyAddress)
values (9, 'Tagfeed', 'kkingzet8@mozilla.com', '23 Moulton Plaza');
insert into company (companyID, companyName, companyEmailID, companyAddress)
values (10, 'Skyble', 'lrainard9@google.es', '1686 Carioca Park');
insert into company (companyID, companyName, companyEmailID, companyAddress)
values (11, 'Twitterbeat', 'mpowdera@globo.com', '98 Orin Center');
insert into company (companyID, companyName, companyEmailID, companyAddress)
values (12, 'Skyvu', 'slankesterb@tinypic.com', '360 Lunder Hill');
insert into company (companyID, companyName, companyEmailID, companyAddress)
values (13, 'Npath', 'nchevinc@yandex.ru', '72 Doe Crossing Center');
insert into company (companyID, companyName, companyEmailID, companyAddress)
values (14, 'Oyoyo', 'aheinld@xrea.com', '15115 Rusk Plaza');
insert into company (companyID, companyName, companyEmailID, companyAddress)
values (15, 'Eamia', 'mhymerse@flickr.com', '0 Summerview Plaza');
insert into company (companyID, companyName, companyEmailID, companyAddress)
values (16, 'Pixonyx', 'aschurichtf@theatlantic.com', '2 Farwell Trail');
insert into company (companyID, companyName, companyEmailID, companyAddress)
values (17, 'Thoughtstorm', 'lsydeg@reuters.com', '1021 Milwaukee Place');
insert into company (companyID, companyName, companyEmailID, companyAddress)
values (18, 'Gigabox', 'bdaintreyh@usnews.com', '029 Dayton Lane');
insert into company (companyID, companyName, companyEmailID, companyAddress)
values (19, 'Eabox', 'aclaitoni@virginia.edu', '8308 Fremont Point');
insert into company (companyID, companyName, companyEmailID, companyAddress)
values (20, 'Skyndu', 'dsalternej@yale.edu', '18 Oakridge Parkway');
```

CompanyPhNo

```
insert into  companyPhNo (companyID, companyPhNo) values (1, '496-800-5351');
insert into  companyPhNo (companyID, companyPhNo) values (2, '752-309-2745');
insert into  companyPhNo (companyID, companyPhNo) values (3, '455-443-9919');
insert into  companyPhNo (companyID, companyPhNo) values (4, '541-431-3714');
insert into  companyPhNo (companyID, companyPhNo) values (5, '842-772-1428');
insert into  companyPhNo (companyID, companyPhNo) values (6, '581-101-1401');
insert into  companyPhNo (companyID, companyPhNo) values (7, '267-768-0869');
insert into  companyPhNo (companyID, companyPhNo) values (8, '160-219-7572');
insert into  companyPhNo (companyID, companyPhNo) values (9, '898-392-5269');
insert into  companyPhNo (companyID, companyPhNo) values (10, '892-655-1145');
insert into  companyPhNo (companyID, companyPhNo) values (11, '403-314-6269');
insert into  companyPhNo (companyID, companyPhNo) values (12, '883-680-7990');
insert into  companyPhNo (companyID, companyPhNo) values (13, '148-742-4717');
insert into  companyPhNo (companyID, companyPhNo) values (14, '124-120-4380');
insert into  companyPhNo (companyID, companyPhNo) values (15, '138-816-5290');
```

```
insert into  companyPhNo (companyID, companyPhNo) values (16, '183-222-9184');
insert into  companyPhNo (companyID, companyPhNo) values (17, '169-384-6522');
insert into  companyPhNo (companyID, companyPhNo) values (18, '253-949-7019');
insert into  companyPhNo (companyID, companyPhNo) values (19, '385-176-8892');
insert into  companyPhNo (companyID, companyPhNo) values (20, '610-332-9172');
```

Sells

```
insert into sells (companyID, productID) values (1, 1);
insert into sells (companyID, productID) values (2, 2);
insert into sells (companyID, productID) values (3, 3);
insert into sells (companyID, productID) values (4, 4);
insert into sells (companyID, productID) values (5, 5);
insert into sells (companyID, productID) values (6, 6);
insert into sells (companyID, productID) values (7, 7);
insert into sells (companyID, productID) values (8, 8);
insert into sells (companyID, productID) values (9, 9);
insert into sells (companyID, productID) values (10, 10);
insert into sells (companyID, productID) values (11, 11);
insert into sells (companyID, productID) values (12, 12);
insert into sells (companyID, productID) values (13, 13);
insert into sells (companyID, productID) values (14, 14);
insert into sells (companyID, productID) values (15, 15);
insert into sells (companyID, productID) values (16, 16);
insert into sells (companyID, productID) values (17, 17);
insert into sells (companyID, productID) values (18, 18);
insert into sells (companyID, productID) values (19, 19);
insert into sells (companyID, productID) values (20, 20);
```

6. Work done:

The whole team got on call and each member has contributed equally to the project, for approximately 6.5 hours each.