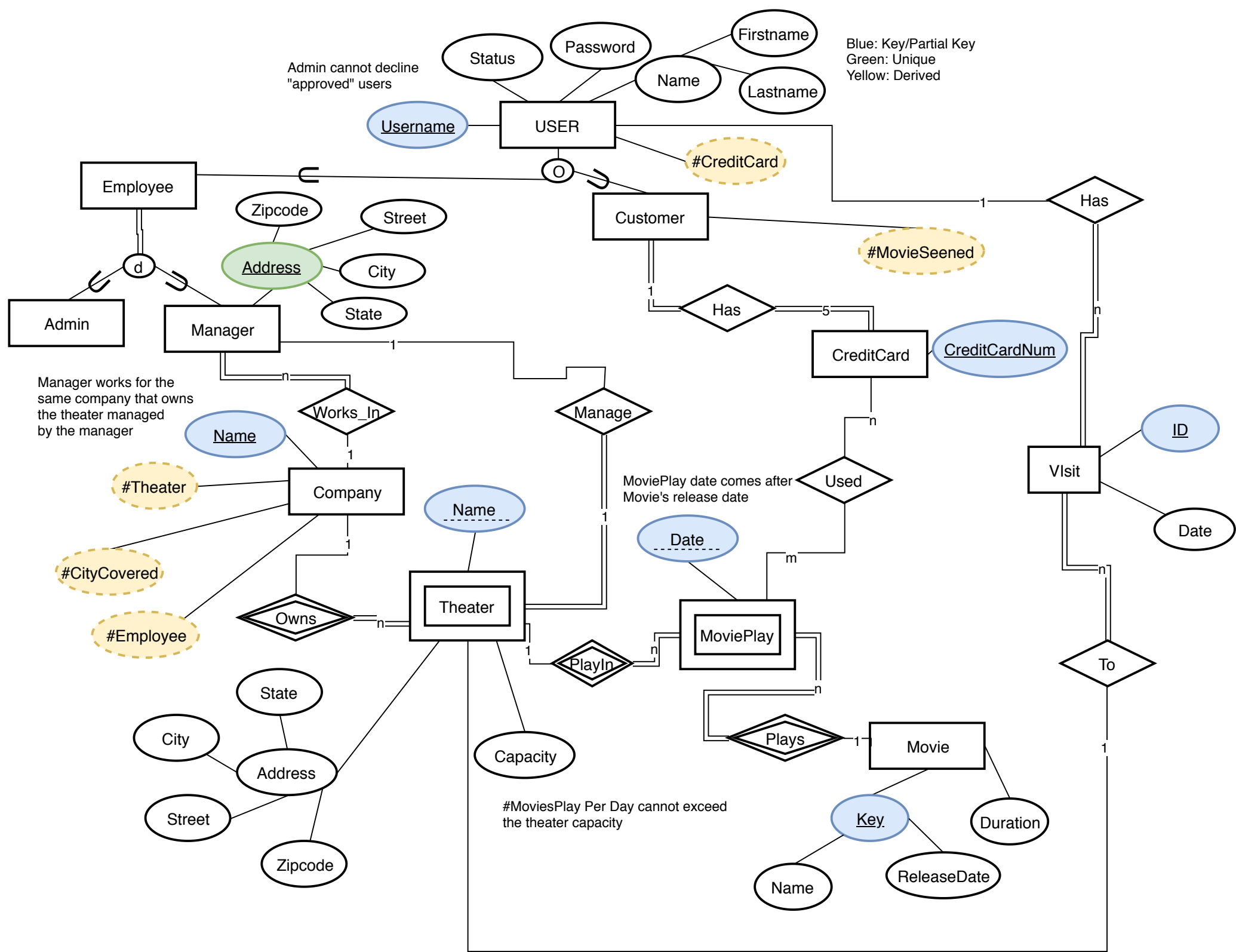




# TEAM 52

## Phase 2

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**users = (username, user\_status, user\_password, firstname, lastname)**

**employee = (username [fk1])**

fk1: username -> users.username

**customer = (username [fk2])**

fk2: username -> users.username

**admin = (username [fk3])**

fk3: username -> employee.username

**manager = (username [fk4], zipcode, street, city, state, company [fk5])**

fk4: username -> employee.username

fk5: company -> company.company\_name (Non-null)

**company: Name**

**theater: (compname [fk6], theater\_name, zipcode, street, city, state, capacity, username\_mgr [fk7])**

fk6: compname -> company.company\_name

fk7: username\_mgr -> manager.username (Non-null)

**movie: (movie\_name, releasedate, duration)**

**movieplay: (movieplay\_compname, movieplay\_theatename [fk8], movieplay\_date, movieplay\_name, movieplay\_releasedate, [fk9])**

fk8: movieplay\_compname, movieplay\_theatename -> theater.compname, theater.theater\_name

fk9: movieplay\_name, movieplay\_releasedate -> movie.movie\_name, movie.releasedate

**creditcard: (creditcardnum, username [fk10])**

fk10: username -> customer.username

**visit: (ID, v\_date v\_username [fk11], v\_compname, v\_theatename [fk13])**

fk11: v\_username -> users.username

fk12: v\_compname, v\_theatename -> theater.compname, theater.theater\_name

**used: (u\_creditcardnum [fk14], u\_compname, u\_theatename, u\_date, u\_moviename, u\_releasedate [fk15])**

fk14: u\_creditcardnum -> creditcard.creditcardnum

fk15: u\_compname, u\_theatename, u\_date, u\_moviename, u\_releasedate ->

movieplay.movieplay\_compname, movieplay.movieplay\_theatename,

movieplay.movieplay\_date, movieplay.movieplay\_name, movieplay.movieplay\_releasedate

```

drop database if exists ATL_movie;
create database ATL_movie;
use ATL_movie;

create table users (
    username varchar(50) not null,
    user_status varchar(50) not null,
    user_password varchar(50) not null,
    firstname varchar(50) not null,
    lastname varchar(50) not null,
    primary key (username),
    constraint `check_status` check ( user_status in
('Pending','Approved','Declined')),
    constraint `minlength` check (length(user_password)>7)
);
create table customer (
    username varchar(50) not null,
    primary key (username),
    constraint `ibfk_1` foreign key (username) references users(username)
on update cascade
on delete cascade
);
create table employee (
    username varchar(50) not null,
    primary key (username),
    constraint `ibfk_2` foreign key (username) references users(username)
on update cascade
on delete cascade
);
create table admin (
    username varchar(50) not null,
    primary key (username),
    constraint `ibfk_3` foreign key (username) references employee(username)
on update cascade
on delete cascade
);
create table company (
    company_name varchar(50) not null,
    primary key (company_name)
);
create table manager (
    username varchar(50) not null,
    zipcode char(5) not null,
    street varchar(50) not null,
    city varchar (50) not null,
    state char(2) not null,
    company varchar (50) not null,
    primary key (username),
    unique key (zipcode,street,city,state),
    constraint `ibfk_4` foreign key (username) references employee(username)
on update cascade
on delete cascade,
    constraint `ibfk_5` foreign key (company) references company(company_name)
on update cascade
on delete cascade
);
create table creditcard (
    username varchar(50) not null,

```

```

        creditcardnum char(16) not null,
        primary key (creditcardnum),
        constraint `ibfk_6` foreign key (username) references customer(username)
        on update cascade
        on delete cascade
    );

create table theater (
    compname varchar(50) not null,
    theater_name varchar(50) not null,
    zipcode char(5) not null,
    street varchar(50) not null,
    city varchar (50) not null,
    state char(2) not null,
    capacity int not null,
    username_mgr varchar(50) not null,
    primary key (compname,theater_name),
    constraint `ibfk_7` foreign key (compname) references company(company_name)
    on update cascade
    on delete cascade,
    constraint `ibfk_8` foreign key (username_mgr) references manager(username)
    on update cascade
    on delete restrict
);

create table movie (
    movie_name varchar(50) not null,
    releasedate date not null,
    duration int not null,
    primary key (movie_name,releasedate)
);

create table movieplay (
    movieplay_compname varchar(50) not null,
    movieplay_theatername varchar(50) not null,
    movieplay_date date not null,
    movieplay_name varchar(50) not null,
    movieplay_releasedate date not null,
    primary key
(movieplay_compname,movieplay_theatername,movieplay_date,movieplay_name,movieplay_releasedate),
    constraint `ibfk_9` foreign key (movieplay_compname,movieplay_theatername)
references theater(compname,theater_name)
    on update cascade
    on delete cascade,
    constraint `ibfk_10` foreign key (movieplay_name,movieplay_releasedate)
references movie(movie_name,releasedate)
    on update cascade
    on delete cascade
);

create table used (
    u_creditcardnum char(16) not null,
    u_compname varchar(50) not null,
    u_theatername varchar(50) not null,
    u_date date not null,
    u_moviename varchar(50) not null,
    u_releasedate date not null,
    primary key
(u_creditcardnum,u_compname,u_theatername,u_date,u_moviename,u_releasedate),
    constraint `ibfk_11` foreign key (u_creditcardnum) references
creditcard(creditcardnum)

```

```

        on update cascade
        on delete cascade,
        constraint `ibfk_12` foreign key
(u_compname,u_theatename,u_date,u_moviename,u_releasedate) references
movieplay(movieplay_compname,movieplay_theatename,movieplay_date,movieplay_name,movieplay_releasedate)
        on update cascade
        on delete cascade
);
create table visit (
        ID varchar(50) not null,
        v_date date not null,
        v_username varchar(50),
        v_compname varchar(50),
        v_theatename varchar(50),
        primary key (ID),
        constraint `ibfk_13` foreign key (v_username) references users(username)
        on update cascade
        on delete set null,
        constraint `ibfk_14` foreign key (v_compname,v_theatename) references
theater(compname,theater_name)
        on update cascade
        on delete set null
);

```

```

-- MySQL dump 10.13  Distrib 8.0.17, for macos10.14 (x86_64)
--
-- Host: localhost      Database: ATL_movie
-- -----
-- Server version 8.0.17

/*!40101 SET @OLD_CHARACTER_SET_CLIENT=@@CHARACTER_SET_CLIENT */;
/*!40101 SET @OLD_CHARACTER_SET_RESULTS=@@CHARACTER_SET_RESULTS */;
/*!40101 SET @OLD_COLLATION_CONNECTION=@@COLLATION_CONNECTION */;
/*!50503 SET NAMES utf8 */;
/*!40103 SET @OLD_TIME_ZONE=@@TIME_ZONE */;
/*!40103 SET TIME_ZONE='+00:00' */;
/*!40014 SET @OLD_UNIQUE_CHECKS=@@UNIQUE_CHECKS, UNIQUE_CHECKS=0 */;
/*!40014 SET @OLD_FOREIGN_KEY_CHECKS=@@FOREIGN_KEY_CHECKS, FOREIGN_KEY_CHECKS=0 */;
/*!40101 SET @OLD_SQL_MODE=@@SQL_MODE, SQL_MODE='NO_AUTO_VALUE_ON_ZERO' */;
/*!40111 SET @OLD_SQL_NOTES=@@SQL_NOTES, SQL_NOTES=0 */;

--
-- Table structure for table `admin`
--

DROP TABLE IF EXISTS `admin`;
/*!40101 SET @saved_cs_client      = @@character_set_client */;
/*!50503 SET character_set_client = utf8mb4 */;
CREATE TABLE `admin` (
  `username` varchar(50) NOT NULL,
  PRIMARY KEY (`username`),
  CONSTRAINT `ibfk_3` FOREIGN KEY (`username`) REFERENCES `employee` (`username`)
ON DELETE CASCADE ON UPDATE CASCADE
) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4 COLLATE=utf8mb4_0900_ai_ci;
/*!40101 SET character_set_client = @saved_cs_client */;

--
-- Dumping data for table `admin`
--

LOCK TABLES `admin` WRITE;
/*!40000 ALTER TABLE `admin` DISABLE KEYS */;
/*!40000 ALTER TABLE `admin` ENABLE KEYS */;
UNLOCK TABLES;

--
-- Table structure for table `company`
--

DROP TABLE IF EXISTS `company`;
/*!40101 SET @saved_cs_client      = @@character_set_client */;
/*!50503 SET character_set_client = utf8mb4 */;
CREATE TABLE `company` (
  `company_name` varchar(50) NOT NULL,
  PRIMARY KEY (`company_name`)
) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4 COLLATE=utf8mb4_0900_ai_ci;
/*!40101 SET character_set_client = @saved_cs_client */;

--
-- Dumping data for table `company`
--

LOCK TABLES `company` WRITE;

```

```

/*!40000 ALTER TABLE `company` DISABLE KEYS */;
/*!40000 ALTER TABLE `company` ENABLE KEYS */;
UNLOCK TABLES;

--
-- Table structure for table `creditcard`
--

DROP TABLE IF EXISTS `creditcard`;
/*!40101 SET @saved_cs_client      = @@character_set_client */;
/*!50503 SET character_set_client = utf8mb4 */;
CREATE TABLE `creditcard` (
  `username` varchar(50) NOT NULL,
  `creditcardnum` char(16) NOT NULL,
  PRIMARY KEY (`creditcardnum`),
  KEY `ibfk_6` (`username`),
  CONSTRAINT `ibfk_6` FOREIGN KEY (`username`) REFERENCES `customer` (`username`)
ON DELETE CASCADE ON UPDATE CASCADE
) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4 COLLATE=utf8mb4_0900_ai_ci;
/*!40101 SET character_set_client = @saved_cs_client */;

--
-- Dumping data for table `creditcard`
--

LOCK TABLES `creditcard` WRITE;
/*!40000 ALTER TABLE `creditcard` DISABLE KEYS */;
/*!40000 ALTER TABLE `creditcard` ENABLE KEYS */;
UNLOCK TABLES;

--
-- Table structure for table `customer`
--

DROP TABLE IF EXISTS `customer`;
/*!40101 SET @saved_cs_client      = @@character_set_client */;
/*!50503 SET character_set_client = utf8mb4 */;
CREATE TABLE `customer` (
  `username` varchar(50) NOT NULL,
  PRIMARY KEY (`username`),
  CONSTRAINT `ibfk_1` FOREIGN KEY (`username`) REFERENCES `users` (`username`) ON
DELETE CASCADE ON UPDATE CASCADE
) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4 COLLATE=utf8mb4_0900_ai_ci;
/*!40101 SET character_set_client = @saved_cs_client */;

--
-- Dumping data for table `customer`
--

LOCK TABLES `customer` WRITE;
/*!40000 ALTER TABLE `customer` DISABLE KEYS */;
/*!40000 ALTER TABLE `customer` ENABLE KEYS */;
UNLOCK TABLES;

--
-- Table structure for table `employee`
--

DROP TABLE IF EXISTS `employee`;

```



```

/*!40101 SET @saved_cs_client      = @@character_set_client */;
/*!50503 SET character_set_client = utf8mb4 */;
CREATE TABLE `employee` (
  `username` varchar(50) NOT NULL,
  PRIMARY KEY (`username`),
  CONSTRAINT `ibfk_2` FOREIGN KEY (`username`) REFERENCES `users` (`username`) ON
DELETE CASCADE ON UPDATE CASCADE
) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4 COLLATE=utf8mb4_0900_ai_ci;
/*!40101 SET character_set_client = @saved_cs_client */;

--
-- Dumping data for table `employee`
--

LOCK TABLES `employee` WRITE;
/*!40000 ALTER TABLE `employee` DISABLE KEYS */;
/*!40000 ALTER TABLE `employee` ENABLE KEYS */;
UNLOCK TABLES;

--
-- Table structure for table `manager`
--

DROP TABLE IF EXISTS `manager`;
/*!40101 SET @saved_cs_client      = @@character_set_client */;
/*!50503 SET character_set_client = utf8mb4 */;
CREATE TABLE `manager` (
  `username` varchar(50) NOT NULL,
  `zipcode` char(5) NOT NULL,
  `street` varchar(50) NOT NULL,
  `city` varchar(50) NOT NULL,
  `state` char(2) NOT NULL,
  `company` varchar(50) NOT NULL,
  PRIMARY KEY (`username`),
  UNIQUE KEY `zipcode` (`zipcode`,`street`,`city`,`state`),
  KEY `ibfk_5` (`company`),
  CONSTRAINT `ibfk_4` FOREIGN KEY (`username`) REFERENCES `employee` (`username`)
ON DELETE CASCADE ON UPDATE CASCADE,
  CONSTRAINT `ibfk_5` FOREIGN KEY (`company`) REFERENCES `company` (`company_name`)
ON DELETE CASCADE ON UPDATE CASCADE
) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4 COLLATE=utf8mb4_0900_ai_ci;
/*!40101 SET character_set_client = @saved_cs_client */;

--
-- Dumping data for table `manager`
--

LOCK TABLES `manager` WRITE;
/*!40000 ALTER TABLE `manager` DISABLE KEYS */;
/*!40000 ALTER TABLE `manager` ENABLE KEYS */;
UNLOCK TABLES;

--
-- Table structure for table `movie`
--

DROP TABLE IF EXISTS `movie`;
/*!40101 SET @saved_cs_client      = @@character_set_client */;
/*!50503 SET character_set_client = utf8mb4 */;

```

```

CREATE TABLE `movie` (
  `movie_name` varchar(50) NOT NULL,
  `releasedate` date NOT NULL,
  `duration` int(11) NOT NULL,
  PRIMARY KEY (`movie_name`,`releasedate`)
) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4 COLLATE=utf8mb4_0900_ai_ci;
/*!40101 SET character_set_client = @saved_cs_client */;

--
-- Dumping data for table `movie`
--

LOCK TABLES `movie` WRITE;
/*!40000 ALTER TABLE `movie` DISABLE KEYS */;
/*!40000 ALTER TABLE `movie` ENABLE KEYS */;
UNLOCK TABLES;

--
-- Table structure for table `movieplay`
--

DROP TABLE IF EXISTS `movieplay`;
/*!40101 SET @saved_cs_client = @@character_set_client */;
/*!50503 SET character_set_client = utf8mb4 */;
CREATE TABLE `movieplay` (
  `movieplay_compname` varchar(50) NOT NULL,
  `movieplay_theatername` varchar(50) NOT NULL,
  `movieplay_date` date NOT NULL,
  `movieplay_name` varchar(50) NOT NULL,
  `movieplay_releasedate` date NOT NULL,
  PRIMARY KEY
(`movieplay_compname`,`movieplay_theatername`,`movieplay_date`,`movieplay_name`,`movieplay_releasedate`),
  KEY `ibfk_10` (`movieplay_name`,`movieplay_releasedate`),
  CONSTRAINT `ibfk_10` FOREIGN KEY (`movieplay_name`,`movieplay_releasedate`)
REFERENCES `movie` (`movie_name`,`releasedate`) ON DELETE CASCADE ON UPDATE
CASCADE,
  CONSTRAINT `ibfk_9` FOREIGN KEY (`movieplay_compname`,`movieplay_theatername`)
REFERENCES `theater` (`compname`,`theater_name`) ON DELETE CASCADE ON UPDATE
CASCADE
) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4 COLLATE=utf8mb4_0900_ai_ci;
/*!40101 SET character_set_client = @saved_cs_client */;

--
-- Dumping data for table `movieplay`
--

LOCK TABLES `movieplay` WRITE;
/*!40000 ALTER TABLE `movieplay` DISABLE KEYS */;
/*!40000 ALTER TABLE `movieplay` ENABLE KEYS */;
UNLOCK TABLES;

--
-- Table structure for table `theater`
--

DROP TABLE IF EXISTS `theater`;
/*!40101 SET @saved_cs_client = @@character_set_client */;
/*!50503 SET character_set_client = utf8mb4 */;

```

```

CREATE TABLE `theater` (
  `comprname` varchar(50) NOT NULL,
  `theater_name` varchar(50) NOT NULL,
  `zipcode` char(5) NOT NULL,
  `street` varchar(50) NOT NULL,
  `city` varchar(50) NOT NULL,
  `state` char(2) NOT NULL,
  `capacity` int(11) NOT NULL,
  `username_mgr` varchar(50) NOT NULL,
  PRIMARY KEY (`comprname`,`theater_name`),
  KEY `ibfk_8` (`username_mgr`),
  CONSTRAINT `ibfk_7` FOREIGN KEY (`comprname`) REFERENCES `company`
(`company_name`) ON DELETE CASCADE ON UPDATE CASCADE,
  CONSTRAINT `ibfk_8` FOREIGN KEY (`username_mgr`) REFERENCES `manager`
(`username`) ON DELETE RESTRICT ON UPDATE CASCADE
) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4 COLLATE=utf8mb4_0900_ai_ci;
/*!40101 SET character_set_client = @saved_cs_client */;

--
-- Dumping data for table `theater`
--

LOCK TABLES `theater` WRITE;
/*!40000 ALTER TABLE `theater` DISABLE KEYS */;
/*!40000 ALTER TABLE `theater` ENABLE KEYS */;
UNLOCK TABLES;

--
-- Table structure for table `used`
--

DROP TABLE IF EXISTS `used`;
/*!40101 SET @saved_cs_client      = @@character_set_client */;
/*!50503 SET character_set_client = utf8mb4 */;
CREATE TABLE `used` (
  `u_creditcardnum` char(16) NOT NULL,
  `u_comprname` varchar(50) NOT NULL,
  `u_theatername` varchar(50) NOT NULL,
  `u_date` date NOT NULL,
  `u_moviename` varchar(50) NOT NULL,
  `u_releasedate` date NOT NULL,
  PRIMARY KEY
(`u_creditcardnum`,`u_comprname`,`u_theatername`,`u_date`,`u_moviename`,`u_releaseda
te`),
  KEY `ibfk_12`
(`u_comprname`,`u_theatername`,`u_date`,`u_moviename`,`u_releasedate`),
  CONSTRAINT `ibfk_11` FOREIGN KEY (`u_creditcardnum`) REFERENCES `creditcard`
(`creditcardnum`) ON DELETE CASCADE ON UPDATE CASCADE,
  CONSTRAINT `ibfk_12` FOREIGN KEY (`u_comprname`,`u_theatername`,`u_date`,`
u_moviename`,`u_releasedate`) REFERENCES `movieplay` (`movieplay_comprname`,`
movieplay_theatername`,`movieplay_date`,`movieplay_name`,`
movieplay_releasedate`) ON DELETE CASCADE ON UPDATE CASCADE
) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4 COLLATE=utf8mb4_0900_ai_ci;
/*!40101 SET character_set_client = @saved_cs_client */;

--
-- Dumping data for table `used`
--

```

```

LOCK TABLES `used` WRITE;
/*!40000 ALTER TABLE `used` DISABLE KEYS */;
/*!40000 ALTER TABLE `used` ENABLE KEYS */;
UNLOCK TABLES;

```

```

--
-- Table structure for table `users`
--

```

```

DROP TABLE IF EXISTS `users`;
/*!40101 SET @saved_cs_client      = @@character_set_client */;
/*!50503 SET character_set_client = utf8mb4 */;
CREATE TABLE `users` (
  `username` varchar(50) NOT NULL,
  `user_status` varchar(50) NOT NULL,
  `user_password` varchar(50) NOT NULL,
  `firstname` varchar(50) NOT NULL,
  `lastname` varchar(50) NOT NULL,
  PRIMARY KEY (`username`),
  CONSTRAINT `check_status` CHECK ((`user_status` in
(_utf8mb4'Pending',_utf8mb4'Approved',_utf8mb4'Declined'))),
  CONSTRAINT `minlength` CHECK ((length(`user_password`) > 7))
) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4 COLLATE=utf8mb4_0900_ai_ci;
/*!40101 SET character_set_client = @saved_cs_client */;

```

```

--
-- Dumping data for table `users`
--

```

```

LOCK TABLES `users` WRITE;
/*!40000 ALTER TABLE `users` DISABLE KEYS */;
/*!40000 ALTER TABLE `users` ENABLE KEYS */;
UNLOCK TABLES;

```

```

--
-- Table structure for table `visit`
--

```

```

DROP TABLE IF EXISTS `visit`;
/*!40101 SET @saved_cs_client      = @@character_set_client */;
/*!50503 SET character_set_client = utf8mb4 */;
CREATE TABLE `visit` (
  `ID` varchar(50) NOT NULL,
  `v_date` date NOT NULL,
  `v_username` varchar(50) DEFAULT NULL,
  `v_compname` varchar(50) DEFAULT NULL,
  `v_theatename` varchar(50) DEFAULT NULL,
  PRIMARY KEY (`ID`),
  KEY `ibfk_13` (`v_username`),
  KEY `ibfk_14` (`v_compname`,`v_theatename`),
  CONSTRAINT `ibfk_13` FOREIGN KEY (`v_username`) REFERENCES `users` (`username`)
ON DELETE SET NULL ON UPDATE CASCADE,
  CONSTRAINT `ibfk_14` FOREIGN KEY (`v_compname`,`v_theatename`) REFERENCES
`theater` (`compname`,`theater_name`) ON DELETE SET NULL ON UPDATE CASCADE
) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4 COLLATE=utf8mb4_0900_ai_ci;
/*!40101 SET character_set_client = @saved_cs_client */;

```

```

--
-- Dumping data for table `visit`
--

```

```
--  
  
LOCK TABLES `visit` WRITE;  
/*!40000 ALTER TABLE `visit` DISABLE KEYS */;  
/*!40000 ALTER TABLE `visit` ENABLE KEYS */;  
UNLOCK TABLES;  
  
--  
-- Dumping events for database 'ATL_movie'  
--  
  
--  
-- Dumping routines for database 'ATL_movie'  
--  
/*!40103 SET TIME_ZONE=@OLD_TIME_ZONE */;  
  
/*!40101 SET SQL_MODE=@OLD_SQL_MODE */;  
/*!40014 SET FOREIGN_KEY_CHECKS=@OLD_FOREIGN_KEY_CHECKS */;  
/*!40014 SET UNIQUE_CHECKS=@OLD_UNIQUE_CHECKS */;  
/*!40101 SET CHARACTER_SET_CLIENT=@OLD_CHARACTER_SET_CLIENT */;  
/*!40101 SET CHARACTER_SET_RESULTS=@OLD_CHARACTER_SET_RESULTS */;  
/*!40101 SET COLLATION_CONNECTION=@OLD_COLLATION_CONNECTION */;  
/*!40111 SET SQL_NOTES=@OLD_SQL_NOTES */;
```