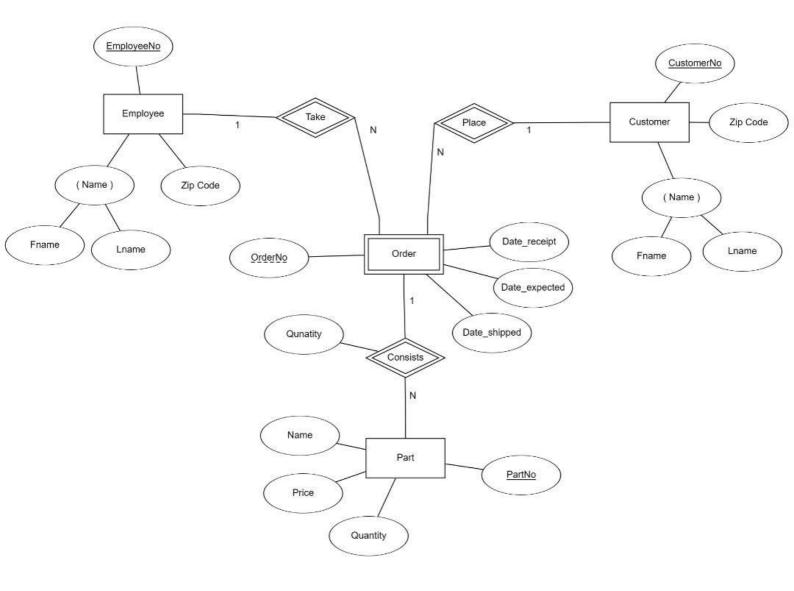
Question 01 - MAIL_ORDER

```
CREATE DATABASE mail_order;
USE mail_order;
CREATE TABLE employee (
  emp_no INT NOT NULL PRIMARY KEY,
  first_name VARCHAR(20),
  last_name VARCHAR (20),
  zip_code CHAR (5));
CREATE TABLE customer(
 cust_no INT NOT NULL PRIMARY KEY,
 first_name VARCHAR(20),
 last_name VARCHAR (20),
 zip_code CHAR (5));
CREATE TABLE part(
 part_no INT NOT NULL PRIMARY KEY,
 part_name VARCHAR(20),
 price INT,
 quantity INT);
CREATE TABLE order(
 order_no INT,
 date_receipt Date,
 date_expected Date,
 date_shipped Date,
 emp_no INT,
```

```
cust_no INT,
part_no INT,
PRIMARY KEY (order_no, emp_no, cust_no, part_no),
FOREIGN KEY (emp_no) REFERENCES employee(emp_no),
FOREIGN KEY (cust_no) REFERENCES customer(cust_no),
FOREIGN KEY (part_no) REFERENCES part(part_no)
);
```



Question 02 – MOVIES

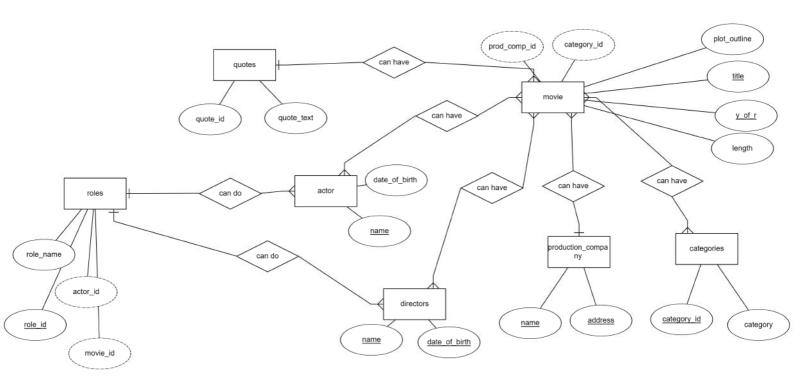
```
CREATE TABLE
     actors(
    actor id TINYINT(3) NOT NULL UNIQUE AUTO INCREMENT,
    name VARCHAR(20) NOT NULL,
    date_of_birth DATE NOT NULL,
    PRIMARY KEY (name, date_of_birth),
    UNIQUE (name, date_of_birth)
    );
CREATE TABLE
     directors(
    director_id TINYINT(3) NOT NULL UNIQUE AUTO_INCREMENT,
    name VARCHAR(20) NOT NULL,
    date_of_birth DATE NOT NULL,
    PRIMARY KEY (name, date_of_birth),
    UNIQUE (name, date_of_birth)
    );
CREATE TABLE
     production_company(
    comp_id TINYINT(3) NOT NULL UNIQUE AUTO_INCREMENT,
    name VARCHAR(20) NOT NULL,
    address DATE NOT NULL,
    PRIMARY KEY (name, address),
    UNIQUE (name, address)
    );
```

```
CREATE TABLE
     categories(
          category_id TINYINT(3) NOT NULL UNIQUE AUTO_INCREMENT,
    category VARCHAR(15),
    CHECK (category IN ('horror', 'action', 'drama'))
     );
CREATE TABLE
     movies(
    movie_id TINYINT(3) NOT NULL UNIQUE AUTO_INCREMENT,
    title VARCHAR(20) NOT NULL,
    year_release YEAR NOT NULL,
    PRIMARY KEY (title, year_release),
    plot VARCHAR(100),
    comp_id TINYINT(3),
    FOREIGN KEY (comp_id) references production_company (comp_id)
    );
CREATE TABLE
     quotes(
    quote_id TINYINT(3) NOT NULL AUTO_INCREMENT PRIMARY KEY,
    actor_id TINYINT(3),
    movie_id TINYINT(3),
    quote_text VARCHAR(100) NOT NULL,
    FOREIGN KEY (actor_id) references actors (actor_id),
```

```
FOREIGN KEY (movie_id) references movies (movie_id)
    );
CREATE TABLE
     roles(
           role_id TINYINT(3) NOT NULL AUTO_INCREMENT PRIMARY
KEY.
           role_name VARCHAR(20) NOT NULL,
    actor_id TINYINT(3),
    FOREIGN KEY (actor_id) references actors (actor_id),
    actor_if_director TINYINT(3) DEFAULT NULL,
    FOREIGN KEY (actor_if_director) references directors (director_id),
    movie id TINYINT(3),
    FOREIGN KEY (movie_id) references movies (movie_id)
     );
CREATE TABLE
     movie_has_category(
    category_id TINYINT(3),
    FOREIGN KEY (category_id) REFERENCES categories (category_id),
           movie_id TINYINT(3),
    FOREIGN KEY (movie_id) REFERENCES movies (movie_id)
  );
```

```
CREATE TABLE
     movie_has_directors(
    director id TINYINT(3),
    movie_id TINYINT(3),
    name VARCHAR(15),
    FOREIGN KEY (director_id) REFERENCES directors (director_id),
    FOREIGN KEY (movie_id) REFERENCES movies (movie_id),
    FOREIGN KEY (name) REFERENCES directors (name)
  );
CREATE TABLE
     movie_has_actors(
    actor_id TINYINT(3),
    movie_id TINYINT(3),
    name VARCHAR(15),
    FOREIGN KEY (actor_id) REFERENCES actors (actor_id),
    FOREIGN KEY (movie_id) REFERENCES movies (movie_id),
    FOREIGN KEY (name) REFERENCES actors (name)
```

);



Question 03 - CONFERENCE_REVIEW

```
CREATE TABLE emails(
  email_id TINYINT(3) PRIMARY KEY AUTO_INCREMENT,
  email VARCHAR(30)
 );
CREATE TABLE authores(
  email_id TINYINT(3) NOT NULL AUTO_INCREMENT,
 UNIQUE(email_id),
 FOREIGN KEY ('email_id') REFERENCES 'emails' ('email_id') ON DELETE
RESTRICT ON UPDATE RESTRICT,
 f_name VARCHAR(10),
 I_name VARCHAR(10)
 );
CREATE TABLE reviewers(
  email_address VARCHAR(30) PRIMARY KEY,
 f_name VARCHAR(10),
 I_name VARCHAR(10),
  affiliation VARCHAR(15),
 topics_of_interests VARCHAR(30)
 );
CREATE TABLE papers(
  paper_id TINYINT(3) PRIMARY KEY AUTO_INCREMENT,
  title VARCHAR(15),
  abstract VARCHAR(100),
 electronic_f VARCHAR(15)
 );
```

```
CREATE TABLE paper_reviews(
  review_id TINYINT(3) PRIMARY KEY AUTO_INCREMENT,
  reviewer email VARCHAR(30) NOT NULL,
  FOREIGN KEY ('reviewer_email') REFERENCES
`reviewers`(`email_address`) ON DELETE RESTRICT ON UPDATE RESTRICT,
  paper_id TINYINT(3) NOT NULL,
  FOREIGN KEY ('paper_id') REFERENCES 'papers' ('paper_id') ON DELETE
RESTRICT ON UPDATE RESTRICT,
  rate_technical ENUM('1', '2', '3', '4', '5', '6', '7', '8', '9', '10'),
  rate_merit ENUM('1', '2', '3', '4', '5', '6', '7', '8', '9', '10'),
  rate_readability ENUM('1', '2', '3', '4', '5', '6', '7', '8', '9', '10'),
  rate_origanility ENUM('1', '2', '3', '4', '5', '6', '7', '8', '9', '10'),
  rate_relevance ENUM('1', '2', '3', '4', '5', '6', '7', '8', '9', '10'),
      comment_committe VARCHAR(100),
  feedback VARCHAR(100)
  );
CREATE TABLE paper_has_reviewer(
  paper_id TINYINT(3),
  FOREIGN KEY ('paper_id') REFERENCES 'papers' ('paper_id') ON DELETE
RESTRICT ON UPDATE RESTRICT,
  reviewer_id VARCHAR(30),
  FOREIGN KEY ('reviewer id') REFERENCES 'reviewers' ('email address')
ON DELETE RESTRICT ON UPDATE RESTRICT
  );
CREATE TABLE paper has author(
  paper_id TINYINT(3),
```

```
FOREIGN KEY (`paper_id`) REFERENCES `papers`(`paper_id`) ON DELETE RESTRICT ON UPDATE RESTRICT,

author_id TINYINT(3),

FOREIGN KEY (`author_id`) REFERENCES `authores`(`email_id`) ON DELETE RESTRICT ON UPDATE RESTRICT,

contact_author ENUM ('yes', 'no') NOT NULL

);
```

