```
create table journal
name varchar(30) primary key not null,
frequency varchar(30)
);
create table volume
id integer primary key not null,
name varchar(30) primary key not null,
dates date.
publicationDate date,
foreign key name references journal(name)
);
create table volumeTheme
id integer primary key not null,
name varchar(30) primary key not null,
keywld integer primary key not null,
foreign key id references volume(id),
foreign key name references volume(name),
foreign key keywld references keywords(keywld)
);
create table person
email varchar(30) primary key not null,
name varchar(30) not null,
vid integer primary key not null,
vname varchar(30) primary key not null,
isAuthor boolean,
isReviewer boolean,
isEditor boolean,
foreign key vid references volume(id),
foreign key vname references volume(name)
);
create table Personinterest
email varchar(30) primary key not null,
keywld integer primary key not null,
foreign key email references person(email),
foreign key keywld references keywords(keywld)
```

```
);
create table keywords
keywld integer primary key not null,
keyword varchar(30) not null
create table writtenBy
id integer primary key not null,
email varchar(30) primary key,
foreign key id references Article(id),
foreign key email references person(email)
);
create table Article
id integer primary key not null,
title varchar(30),
bodyText varchar(60),
volld integer,
volName varchar(30),
correspAut varchar(30),
submissionDate date,
result varchar(100),
foreign key volld references volume(id),
foreign key volName references volume(name),
foreign key correspAut references person(email),
foreign key id references ArticleReviewer(id)
create table ArticleKeywords
aid integer primary key not null,
keywld integer primary key not null,
foreign key aid references Article(id)
);
create table ArticleReviewer
id integer primary key not null,
email varchar(30) primary key,
score1 integer,
```

```
score2 integer,
score3 integer.
foreign key email references person(email)
):
INSERT INTO 'journal' ('name', 'frequency') VALUES ('Journal of Chemistry',
'Biannual'),
('Journal of Psychology', 'Monthly'),
('Journal of Economics', 'Quarterly'),
('Journal of Literature', 'Biweekly'),
('Journal of History', 'Annually');
INSERT INTO 'volume' ('vid', 'name', 'dates', 'publicationDate') VALUES
(11, 'Journal of Chemistry', '2024-05-01', '2024-05-15'),
(12, 'Journal of Chemistry', '2024-06-01', '2024-06-15'),
(21, 'Journal of Psychology', '2024-06-01', '2024-06-15'),
(22, 'Journal of Psychology', '2024-07-01', '2024-07-15'),
(23, 'Journal of Psychology', '2024-08-01', '2024-08-15'),
(31, 'Journal of Economics', '2024-07-01', '2024-07-15'),
(32, 'Journal of Economics', '2024-08-01', '2024-08-15'),
(41, 'Journal of Literature', '2024-07-01', '2024-07-15'),
(51, 'Journal of History', '2024-09-01', '2024-09-15');
INSERT INTO 'volumeTheme' ('id', 'name', 'keywld') VALUES
(11, 'Journal of Chemistry', 1),
(12, 'Journal of Chemistry', 2),
(21, 'Journal of Psychology', 3),
(22, 'Journal of Psychology', 4),
(23, 'Journal of Psychology', 5);
(31, 'Journal of Economics', 6),
(32, 'Journal of Economics', 7),
(41, 'Journal of Literature', 8),
(51, 'Journal of History', 9);
INSERT INTO 'person' ('email', 'name', 'vid', 'vname', 'isAuthor', 'isReviewer',
'isEditor') VALUES ('carol@gmail.com', 'Carol Davis', 11, 'Journal of
Chemistry', true, false, true),
('davis@gmail.com', 'Davis Martin', 12, 'Journal of Chemistry', true, true,
('david@gmail.com', 'David Gilmour', 21, 'Journal of Psychology', true, false,
true).
('ted@gmail.com', 'Ted Gilly', 22, 'Journal of Psychology', true, false, true),
('danny@gmail.com', 'Danny Fisherman', 31, 'Journal of Economics', true,
```

false, true),

('emma@gmail.com', 'Emma Brown', 32, 'Journal of Economics', true, false, false),

('nick@gmail.com', 'Nick Miller', 41, 'Journal of Literature', true, true, false), ('grace@gmail.com', 'Grace Martinez', 51, 'Journal of History', true, false, true);

('tom@gmail.com', 'Tom Jerry', 41, 'Journal of Literature', false, true, false), ('sofya@gmail.com', 'Sofya Nomore', 51, 'Journal of History', false, false, true);

INSERT INTO `ArticleReviewer`('id`, 'email', 'score1`, 'score2`, 'score3') VALUES

- (1, 'carol@gmail.com', 0, 1, 1),
- (2, 'danny@gmail.com', 1, 0.5, 1),
- (3, 'david@gmail.com', 1, 1, 0.5),
- (4, 'davis@gmail.com', 0.5, 1, 0.5),
- (5, 'emma@gmail.com', 0.5, 1, 0.5),
- (8, 'tom@gmail.com', 0.5, 1, 1),
- (9, 'sofya@gmail.com', 0.5, 1, 0.5),
- (10, 'ted@gmail.com', 0, 1, 1);

INSERT INTO `Article`(id`, `title`, `bodyText`, `volİd`, `volName`, `correspAut`, `submissionDate`, `result`) VALUES

- (4, 'Chemical Kinetics', 'How can we mix...', 11, 'Journal of Chemistry', 'carol@gmail.com', '2024-05-10', 'Accepted'),
- (1, 'What is Organic Chemistry', 'Organic...', 12, 'Journal of Chemistry', 'davis@gmail.com', '2024-05-10', 'Under Review'),
- (10, 'Understanding Human Behavior', 'Did you ever wonder...', 21, 'Journal of Psychology', 'david@gmail.com', '2024-06-10', 'Accepted'),
- (3, 'How we know?', 'Did you ever wonder...', 23, 'Journal of Psychology', 'ted@gmail.com', '2024-06-10', 'Accepted'),
- (2, 'What is Microeconomics?', 'Microeconomics mean...', 31, 'Journal of Economics', 'emma@gmail.com', '2024-07-10', 'Under Review'),
- (5, 'Impact of Inflation', 'Lorem ipsum...', 31, 'Journal of Economics', 'danny@gmail.com', '2024-07-10', 'Under Review'),
- (8, 'Shakespearean Sonnets', 'Shakespearean...', 41, 'Journal of Literature', 'nick@gmail.com', '2024-08-10', 'Accepted'),
- (9, 'Ancient Egyptians', 'Lorem ipsum...', 51, 'Journal of History', 'grace@gmail.com', '2024-09-10', 'Under Review');

INSERT INTO 'keywords' ('keywld', 'keyword') VALUES

- (1, 'Chemical Reactions'),
- (2, 'Organic Chemistry'),
- (3, 'Behavioral Psychology'),

```
(4, 'History of Psychology'),
(5, 'Psychology News'),
(6, 'Microeconomics'),
(7. 'International Economics').
(8, 'Classic Literature'),
(9, 'Ancient Civilizations');
INSERT INTO 'volumeTheme' ('id', 'name', 'keywld') VALUES
(11, 'Journal of Chemistry,1),
(12, 'Journal of Chemistry, 2),
(21, 'Journal of Psychology', 3),
(21, 'Journal of Psychology, 4),
(31, 'Journal of Economics', 6),
(32, 'Journal of Economics', 7),
(41, 'Journal of Literature', 8),
(51, 'Journal of History', 9);
INSERT INTO 'writtenBy' ('id', 'email') VALUES
('4', 'carol@gmail.com'),
('1', 'davis@gmail.com'),
('10', 'david@gmail.com'),
('3', 'ted@gmail.com'),
('2', 'emma@gmail.com'),
('5', 'danny@gmail.com'),
('8', 'nick@gmail.com'),
('9', 'grace@gmail.com');
INSERT INTO `ArticleKeywords`(`aid`, `keywld`) VALUES
('4','1'),
('1','2'),
('10', '3'),
('3', '4'),
('2', '6'),
('5', '7'),
('8','8'),
('9', '9');
INSERT INTO 'PersonInterest' ('email', 'keywld') VALUES
('carol@gmail.com','1'),
('carol@gmail.com','2'),
('davis@gmail.com', '2'),
('davis@gmail.com', '1'),
('david@gmail.com','3'),
```

```
('david@gmail.com','4'),
('ted@gmail.com', '3'),
('ted@gmail.com', '4'),
('emma@gmail.com','6'),
('emma@gmail.com','7'),
('danny@gmail.com', '7'),
('danny@gmail.com', '6'),
('nick@gmail.com','8'),
('grace@gmail.com','9'),
('tom@gmail.com','8'),
('sofya@gmail.com','9');
1)
SELECT *
FROM Article A, Volume V
WHERE A.voliD = V.vid and V.vid=11;
2)
SELECT Person.*
FROM Person, Volume
WHERE Volume.vid = 11
    AND isAuthor = 'FALSE' AND isReviewer = 'FALSE' AND isEditor =
'FALSE';
3)
SELECT email, name
FROM person
WHERE isReviewer = true
AND email NOT IN (
  SELECT email
  FROM ArticleReviewer
  WHERE id = 4);
4)
SELECT R.email, R.score1, R.score2, R.score3
FROM ArticleReviewer R
WHERE R.id= 2
5)
SELECT Person.id, Person.name, Article.id, ArticleReviewer.score1,
ArticleReviewer.score2, ArticleReviewer.score3, Article.result
FROM ArticleReviewer, Article, Person
JOIN Article ON ArticleReviewer.id = Article.id
JOIN Person ON ArticleReviewer.email = Person.email
```

```
WHERE Article.id = 4,
    EXISTS(
        SELECT COUNT(*)
    FROM Article
    WHERE Article.id = 4, Article.result = 'Accepted'
    );
6)
SELECT A.title, A.correspAut
FROM Article A
WHERE A.volid=11 and A.result='Accepted'
SELECT A.title, R.email, A.correspAut
FROM Article A, ArticleReviewer R
WHFRF A.volid=11
8)
SELECT Person.*
COUNT(ArticleReviewer.id) AS numOfReviewers
FROM Person. ArticleReviewer
JOIN ArticleReviewer ON Person.email = ArticleReviewer.email
WHERE Person.isReviewer = 'TRUE'
GROUP BY Person.id, Person.email, Person.name
HAVING
    COUNT(ArticleReviewer.id) = (
         SELECT
             MIN(COUNT(ArticleReviewer.id)) AS MinNumberOfReview
         FROM Person, ArticleReviewer
         JOIN ArticleReviewer ON Person.email = ArticleReviewer.email
         WHERE Person.isReviewer = 'true'
         GROUP BY Person.email
9
SELECT A.correspAut
COUNT(*) AS numOfAccepteds
  FROM Article A
  WHERE A.result = 'Accepted'
  GROUP BY A.correspAut ORDER BY numOfAccepteds DESC;
10
SELECT A.title, A.result
FROM Article A
JOIN Person ON A.correspAut = Person.email
  WHERE Person.name = 'Carol Davis'
```