```sql
CREATE SCHEMA `exercise3` ;


CREATE TABLE users
( id int AUTO_INCREMENT,
  name varchar(255),
  type ENUM('admin', 'normal'),
  PRIMARY KEY(id)
);

INSERT INTO users(name, type) VALUES('Nishant', 'admin');
INSERT INTO users(name, type) VALUES('Navin', 'normal');
INSERT INTO users(name, type) VALUES('Deepak', 'normal');
INSERT INTO users(name, type) VALUES('Bhavik', 'admin');


CREATE TABLE categories
( id int AUTO_INCREMENT,
  name varchar(255),
  PRIMARY KEY(id)
);

INSERT INTO categories(name) VALUES('Travel');
INSERT INTO categories(name) VALUES('Adventur');
INSERT INTO categories(name) VALUES('History');
INSERT INTO categories(name) VALUES('Space');

CREATE TABLE articles
( id int AUTO_INCREMENT,
  user_id int,
  category_id int,
  title varchar(255),
  PRIMARY KEY(id ,title),
  FOREIGN KEY(user_id) REFERENCES users(id),
  FOREIGN KEY(category_id) REFERENCES categories(id)
);


INSERT INTO articles(user_id, category_id, title) VALUES(2, 4, 'Future in space');
INSERT INTO articles(user_id, category_id, title) VALUES(1, 3, 'Historic Places');
INSERT INTO articles(user_id, category_id, title) VALUES(4, 2, 'Wild Adventures');
```

```
INSERT INTO articles(user_id, category_id, title) VALUES(3, 4, 'New Technologies');
INSERT INTO articles(user_id, category_id, title) VALUES(3, 1, 'Travel places');
INSERT INTO articles(user_id, category_id, title) VALUES(1, 1, 'Travel Plans');


CREATE TABLE comments
( id int AUTO_INCREMENT,
  user_id int,
  article_id int,
  comment_text varchar(255),
  PRIMARY KEY(id),
  FOREIGN KEY(user_id) REFERENCES users(id),
  FOREIGN KEY(article_id) REFERENCES articles(id)
);

INSERT INTO comments(user_id, article_id, comment_text) VALUES(1, 1, 'Very Helpful');
INSERT INTO comments(user_id, article_id, comment_text) VALUES(3, 1, 'Nice');
INSERT INTO comments(user_id, article_id, comment_text) VALUES(2, 3, 'Accurate');
INSERT INTO comments(user_id, article_id, comment_text) VALUES(1, 4, 'Average');
INSERT INTO comments(user_id, article_id, comment_text) VALUES(4, 2, 'Very Great');
```

2 select all articles whose author's name is user3

```
SELECT users.name, articles.title AS article FROM articles
INNER JOIN users WHERE users.name IN(SELECT name FROM users WHERE id = 3)
AND articles.user_id = users.id;
```

| Deepak | New Technologies |
| Deepak | Travel places |

3 For all the articles being selected above, select all the articles and also the comments associated with those articles in a single query (Do this using subquery also)

```
SELECT articles.title AS article, comments.comment_text AS comment FROM comments
INNER JOIN articles WHERE articles.title
IN(SELECT title FROM articles WHERE user_id = 3)
AND comments.article_id = articles.id;
```

| New Technologies | Average |

4 Write a query to select all articles which do not have any comments (Do using subquery also)

SELECT articles.title AS 'article with no comments' FROM articles
LEFT JOIN comments ON articles.id = comments.article_id
WHERE comments.article_id IS NULL;

Travel Plans
Travel places

5 Write a query to select article which has maximum comments

6 Write a query to select article which does not have more than one comment by the same user (do this using left join and group by)

SELECT articles.title AS 'article (having not more than one comment from same user)'
FROM articles LEFT JOIN comments ON articles.id = comments.article_id
GROUP BY articles.title HAVING COUNT(comments.user_id) = COUNT(DISTINCT comments.user_id);

Future in space
Historic Places
New Technologies
Travel places
Travel Plans
Wild Adventures