```
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
             Travel places
Deepak
2.1)select all articles whose author's name is user3 (Do this exercise using variable also).
SET @user id = 3;
SELECT users.name, articles.title AS article FROM articles
INNER JOIN users WHERE users.id = @user id
AND articles.user_id = users.id;
             New Technologies
Deepak
```

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

3.2) 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 article\_id, comment\_text FROM comments WHERE article\_id IN ( SELECT id FROM articles WHERE user\_id = 3 );

4 Write a query to select all articles which do not have any comments 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;

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

SELECT title

FROM articles

WHERE id NOT IN (SELECT article id FROM comments);

Travel Plans
Travel places

5 Write a query to select article which has maximum comments SELECT articles.title, count(comments.article\_id) AS commentCount FROM articles, comments
WHERE articles.id = comments.article\_id
GROUP BY comments.article\_id

```
HAVING commentCount = (
SELECT count(comments.article_id) AS count
FROM articles, comments
WHERE articles.id = comments.article_id
GROUP BY comments.article_id
ORDER BY count DESC
LIMIT 1
);

Future in 2
space
```

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