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Class- BTECH ITDS

Section- B

URN No- 2022B08112004C

Subject- Computer Networks And Communication

Subject Title- Data Analytics Using SQL

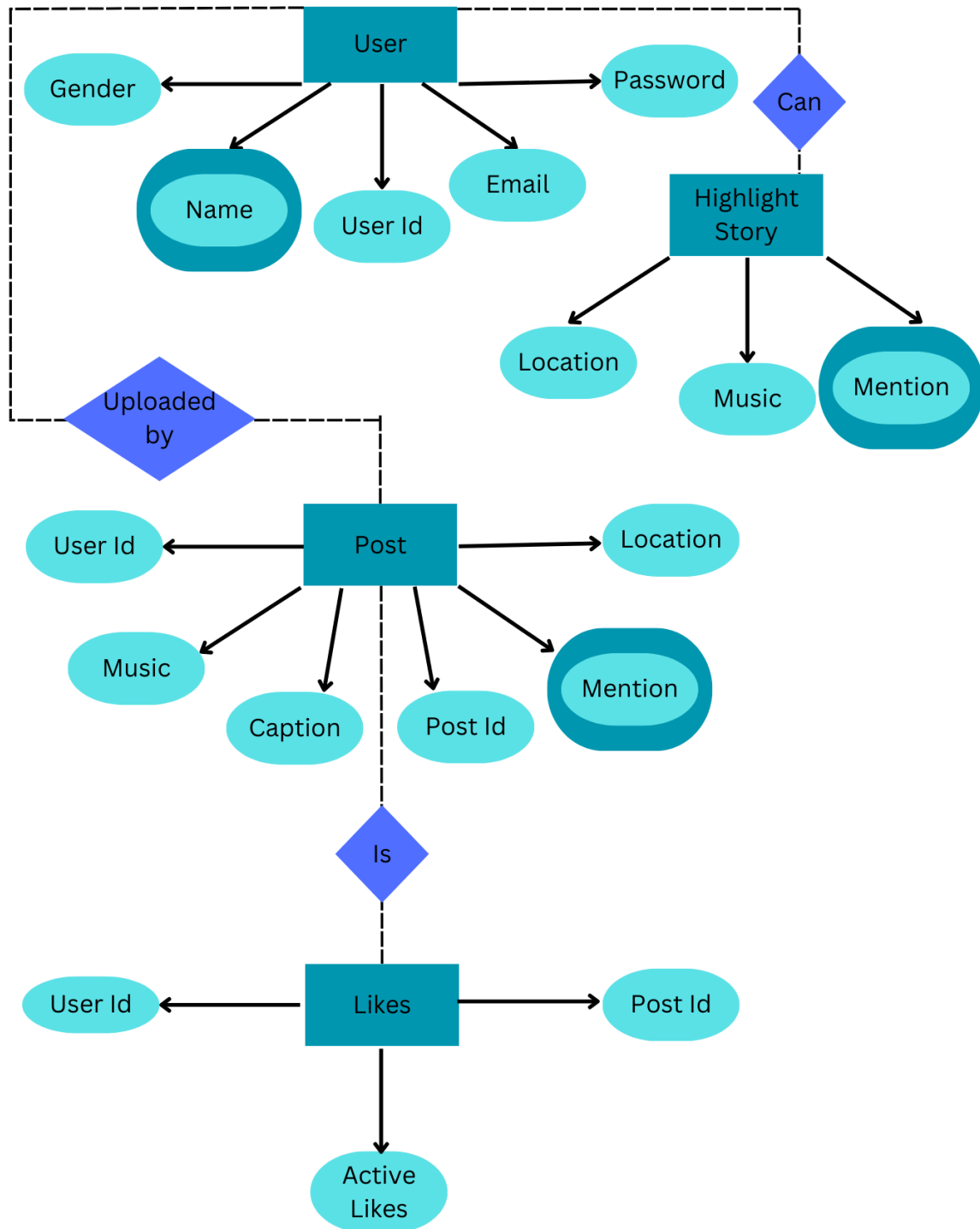
Professor- Diploma Kamdi

Course Code- DS206E

# **Assignment 1**

**Problem Statement – Creating a MySQL project on the application Instagram this application gives us the information on the how many users are registered in it and the information regarding the amount of likes on a post or the type of music used on a highlighted story or caption put on a particular post**

## ER Diagram:



## Database Schema:

### 1) User Table

**create table user2 (Userid varchar(100) primary key,Username varchar (70),Passcode varchar (75),Email varchar(100),Gender char(10));**

Userid	Username	Passcode	Email	Gender
0001_priya	Priya	123	priya.pal@adypu.edu.in	F
appu_004	Apurva	687	apurva.@adypu.edu.in	F
elizibth_888	Elizibth	234	elizibth.@adypu.edu.in	F
h_a-r_s_h	Harsh	117	harsh.m@adypu.edu.in	M
h_ast_i	Hasti	116	hasti.k@adypu.edu.in	F
just_manas_here	Manas	456	manas.hiremath@adypu.edu.in	M
komalkanti0005	Komalkanti	969	komal.panighari@adypu.edu.in	F
krish003	Krish	115	krish.jadooo@adypu.edu.in	M
Lee__Carl	Lee	496	leecarla.@adypu.edu.in	M
luffy10010	Luffy	114	luffy.d@adypu.edu.in	M
mary_3456	Mary	678	mary.@adypu.edu.in	F
n_eh_a09	Neha	476	neha.@adypu.edu.in	F
nami12345	Nami	119	nami.@adypu.edu.in	F
nathen--009	Nathen	555	nathen.@adypu.edu.in	M
noha__008	Noha	890	noha.@adypu.edu.in	M
prachi_889	Prachi	113	prachi.jadhav.edu.in	F
R_D_J	Robert	639	robert.d.j.@adypu.edu.in	M
Robert_P	Robert	359	robert.p.@adypu.edu.in	M
saloni005	Saloni	298	salonia.@adypu.edu.in	F
sanjana06	Sanjana	112	sanjana.arun@adypu.edu.in	F
seanna_martin	Seanna	789	seanna.martin@adypu.edu.in	F
shiva__001	Shiva	118	shiva.@adypu.edu.in	M
tejashri 4567	Tejashri	110	tejashri.@adypu.edu.in	F
vallarie__773	Vallarie	135	vallarie.@adypu.edu.in	F
zoro__007	Zoro	698	zoro.@adypu.edu.in	M

### 2) Post Table

**create table post2 (Userid varchar (100) primary key, Postid varchar(100), Caption varchar(100), Music varchar(100), Location varchar(50), Mention varchar(100));**

Userid	Postid	Caption	Music	Location	Mention
0001_priya	1	Living thr world	Country music	Katraj	saloni005
appu_004	21	Sipping On Sunshine	Soul music	Parvati Hill	Krish
elizibth_888	14	Sparkle Like You Mean It	Pop music	Aga khan Palace	noha__008
h_a-r_s_h	10	Slaying All Day	Funk	Lonavala	seanna_martin
h_ast_i	9	Born To Fly	Dance music	Katraj	luffy10010
just_manas_here	2	Confidence Level	Blues	Lal Mahal	h_a-r_s_h
komalkanti0005	8	Adventure On	Country music	Parvati Hill	mary_3456
krish003	7	In A World	Folk music	Lal Mahal	elizibth_888
Lee__Carl	23	Embracing The Mess	Dance music	Indie Rock	R_D_J
luffy10010	6	Wander Often	Hip Hop music	Shivneri Fort	zoro__007
mary_3456	15	Lift Up High	Blues	Mulshi dam	appu_004
n_eh_a09	19	Unapologetically Me	Rock music	Lonavala	0001_priya
nami12345	12	Messy bun Getting work Done	Indie Rock	Koland	prachi_889
nathen--009	17	Making History	Country music	Amanora Mall	komalkanti0005
noha__008	16	In A Relationship	Folk music	Lonavala	tejashri 4567
prachi_889	5	Strong Women	Jazz	Osho Ashram	Robert_P
R_D_J	25	Classy With A Side Of Sassyi8	Country music	Amanora Mall	seanna_martin
Robert_P	24	Creating The Dream	Hip Hop music	Empress Garden	zoro__007
saloni005	22	Smilling Because Of Me	Funk	Mulshi dam	vallarie__773
sanjanna06	4	Embracing Me	Rock music	Sinhagad	krish003
seanna_martin	3	Chasing Sunsets	Pop music	Amanora Mall	Lee__Carl
shiva__001	11	Sunkissed Today	Soul music	Empress Garden	just_manas_here
tejashri 4567	13	Just Want To Have Fun	Classical music	Parvati Hill	nami12345
vallarie__773	18	Classy Me	Pop music	Empress Garden	nathen--009
zoro__007	20	Determined To Rise	Heavy Metal	Amanora Mall	sanjanna06

### 3) Highlight Story

**create table highlight\_story (Location varchar(100),Music varchar(100),Mention varchar(50));**

Location	Music	Mention
Katraj	Country music	saloni005
Lal Mahal	Blues	h_a-r_s_h
Amanora Mall	Country music	seanna_martin
Parvati Hill	Soul music	Krish
Empress Garden	Pop music	nathen--009
Parvati Hill	Classical music	nami12345
Amanora Mall	Heavy Meta	sanjanna06
Empress Garden	Soul music	just_manas_here
Empress Garden	Hip Hop music	zoro__007
Lonavala	Rock music	0001_priya
Parvati Hill	Dance music	mary_3456
Sinhagad	Jazz	krish003
Mulshi dam	Blues	appu_004
Mulshi dam	Funk	vallarie___773
Lonavala	Rock music	0001_priya
Katraj	Dance music	luffy10010
Sinhagad	Rock music	krish003
Lonavala	Folk music	tejashri 4567
Amanora Mall	Country music	zoro__007
Mulshi dam	Blues	noha___008
Empress Garden	Soul music	komalkanti0005
Amanora Mall	Heavy Metal	sanjanna06
Indie Rock	Funk	R_D_J
Osho Ashram	Pop music	Robert_P
Aga khan Palace	Rock music	noha__008
Koland	Dance music	prachi_889

#### 4) Likes

**create table likes (Userid varchar(100),Postid  
varchar(50),Active\_likes varchar(10));**

Userid	Postid	Active_likes
0001_priya	1000	Yes
seanna_martin	2000	NO
Robert_P	3000	NO
mary_3456	4000	NO
just_manas_here	5000	Yes
nathen--009	6000	Yes
zoro__007	7000	Yes
prachi_889	8000	NO
nami12345	9000	NO
luffy10010	1100	Yes
R_D_J	1200	NO
seanna_martin	1300	Yes
0001_priya	1400	Yes
h_ast_i	1500	NO
prachi_889	1600	NO
just_manas_here	1700	Yes
tejashri 4567	1800	Yes
luffy10010	1900	Yes
seanna_martin	2100	NO
h_ast_i	2200	NO
just_manas_here	2300	Yes
tejashri 4567	2400	Yes
0001_priya	2500	NO
R_D_J	2600	NO
zoro__007	2700	Yes

# Assignment 2

## Questions: -

Question 1: Retrieve the Users Id of all in the database.

Question 2: Find the name Harsh

Question 3: Find count of Females

Question 4: Find the data of all Males

Question 5: Find the username and Gender of the passcode 000119

Question 6: Retrieve the Username of all in the database

Question 7: Retrieve the total count of Users

Question 8: Find data of Lee

Question 9: Find Email and Passcode of Mary

Question 10: Finde data of luffy10010



## **Questions: -**

Question 11: Find User Id whose Post is in Empress Garden

Question 12: Find all Users with null Email Address

Question 13: Select all Post that have been Highlighted by a User

Question 14: Select Mention from table 1 and User Id from table 2

Question 15: Select count from User Id who have never Mentioned anyone

Question 16: Select User Id who have Used Hip Hop music

Question 17: Select Username who have Post Id 18

Question 18: Select Username who have Active Likes in Post Id 4000 to 9000

Question 19: Select male in Empress Gargen and Lal Mahal Location

Question 20: Select User Id whose Caption Is Born To Fly

## Questions: -

Question 21: Select User Id whose Post Id is 10 in Lonavala Location

Question 22: Select User Id whose Music is Heavy Metal in Caption Determined To Rise

Question 23: Select User Id who has Mentioned zoro\_\_007 in Male gender

Question 24: Select User Id with Post Id is greater than '05' with Caption Adventure On and Making History

Question 25: Select Email address with Indie Rock and User Id nami12345

Question 26: Select User Id who has Location Mulshi dam with Active like 'Yes'

Question 27: Select User Id whose Caption Embracing Me in Sinhagad Location

Question 28: Select Email address with Pop music in Caption Chasing Sunsets

Question 29: Select User Id with Mention nathen--008 in Location Empress Garden

Question 30: Select Post Id with Username starting 's' and Active likes 'No'

# Assignment 3

Question 1: Retrieve the Users Id of all in the database.

Ans :

```
• Select Userid from user2;
```

Userid
0001_priya
appu_004
elizibth_888
h_a-r_s_h
h_ast_i
just_manas_here
komalkanti0005
krish003
Lee__Carl
luffy10010
mary_3456
n_eh_a09
nami12345
nathen-009
noha__008
prachi_889
R_D_J
Robert_P
saloni005
sanjanna06
seanna_martin
shiva__001
tejashri_4567
vallarie__773
zoro__007

Question 2: Find the name Harsh

Ans:

```
• Select * from user2  
where Username = 'Harsh' ;
```

	Userid	Username	Passcode	Email	Gender
▶	h_a-r_s_h	Harsh	000117	harsh.m@adypu.edu.in	M
*	NULL	NULL	NULL	NULL	NULL

Question 3: Find count of Females

Ans:

```
• Select Count(*) as Gender
  from user2
  where Gender = 'F';
```

Gender
14

Question 4: Find the data of all Males

Ans:

```
• Select * from user2
  where Gender = 'M';
```

	Userid	Username	Passcode	Email	Gender
▶	h_a-r_s_h	Harsh	000117	harsh.m@adypu.edu.in	M
	just_manas_here	Manas	000456	manas.hiremath@adypu.edu.in	M
	krish003	Krish	000115	krish.jadooo@adypu.edu.in	M
	Lee__Carl	Lee	000496	leecarla.@adypu.edu.in	M
	luffy10010	Luffy	000114	luffy.d@adypu.edu.in	M
	nathen--009	Nathen	000555	nathen.@adypu.edu.in	M
	noha__008	Noha	000890	noha.@adypu.edu.in	M
	R_D_J	Robert	000639	robert.d.j.@adypu.edu.in	M
	Robert_P	Robert	000359	robert.p.@adypu.edu.in	M
	shiva__001	Shiva	000118	shiva.@adypu.edu.in	M
	zoro__007	Zoro	000698	zoro.@adypu.edu.in	M
*	NULL	NULL	NULL	NULL	NULL

Question 5: Find the username and Gender of the passcode 000119

Ans:

```
• Select Username,Gender from user2
  where Passcode = 000119;
```

Username	Gender
Nami	F

Question 6: Retrieve the Username of all in the database

Ans:

- `Select Username from user2;`

Username
Priya
Apurva
Elizibth
Harsh
Hasti
Manas
Komalkanti
Krish
Lee
Luffy
Mary
Neha
Nami
Nathen
Noha
Prachi
Robert
Robert
Saloni
Sanjana
Seanna
Shiva
Tejashri
Vallarie
Zoro

Question 7: Retrieve the total count of Users

Ans:

- `Select Count(*) as Username  
from user2;`

	Username
▶	25

Question 8: Find data of Lee

Ans:

```
• Select * from user2  
  where Username='Lee';
```

	Userid	Username	Passcode	Email	Gender
▶	Lee_Carl	Lee	000496	leecarla.@adypu.edu.in	M
*	NULL	NULL	NULL	NULL	NULL

Question 9: Find Email and Passcode of Mary

Ans:

```
• Select Email,Passcode from user2  
  where Username='Mary';
```

	Email	Passcode
▶	mary.@adypu.edu.in	000678

Question 10: Find data of luffy10010

Ans:

```
• Select * from user2  
  where Userid='luffy10010';
```

	Userid	Username	Passcode	Email	Gender
▶	luffy10010	Luffy	000114	luffy.d@adypu.edu.in	M
*	NULL	NULL	NULL	NULL	NULL

# Assignment 4

Question 11: Find User Id whose Post is in Empress Garden

Ans:

- ```
SELECT DISTINCT Userid
FROM post2
WHERE Location = 'Empress Garden';
```

|   | Userid        |
|---|---------------|
| ▶ | Robert_P      |
|   | shiva__001    |
|   | vallarie__773 |
| ✱ | NULL          |

Question 12: Find all Users with null Email Address

Ans:

- ```
SELECT *  
FROM user2  
WHERE Email IS NULL;
```

	Userid	Username	Passcode	Email	Gender
*	NULL	NULL	NULL	NULL	NULL

Question 13: Select all Post that have been Highlighted by a User

Ans:

- ```
SELECT p.*
FROM post2 p
JOIN highlight_story h ON p.Location = h.Location
                        OR p.Music = h.Music
                        OR p.Userid = h.Mention;
```

| Userid          | Postid | Caption                      | Music           | Location        |
|-----------------|--------|------------------------------|-----------------|-----------------|
| sslon005        | 22     | Smiling Because Of Me        | Funk            | Mulshi dam      |
| R_D_J           | 25     | Classy With A Side Of Sassy8 | Country music   | Amanora Mall    |
| nathen_009      | 17     | Making History               | Country music   | Amanora Mall    |
| komalkanti0005  | 8      | Adventure On                 | Country music   | Parvati Hill    |
| h_ast_i         | 9      | Born To Fly                  | Dance music     | Katraj          |
| 0001_priya      | 1      | Living thr world             | Country music   | Katraj          |
| mary_3456       | 15     | Lift Up High                 | Blues           | Mulshi dam      |
| krish003        | 7      | In A World                   | Folk music      | Lal Mahal       |
| just_manas_here | 2      | Confidence Level             | Blues           | Lal Mahal       |
| h_ar_s_h        | 10     | Slaying All Day              | Funk            | Lonavala        |
| zoro_007        | 20     | Determined To Rise           | Heavy Metal     | Amanora Mall    |
| seanna_martin   | 3      | Chasing Sunsets              | Pop music       | Amanora Mall    |
| R_D_J           | 25     | Classy With A Side Of Sassy8 | Country music   | Amanora Mall    |
| nathen_009      | 17     | Making History               | Country music   | Amanora Mall    |
| komalkanti0005  | 8      | Adventure On                 | Country music   | Parvati Hill    |
| 0001_priya      | 1      | Living thr world             | Country music   | Katraj          |
| tejashri4567    | 13     | Just Want To Have Fun        | Classical music | Parvati Hill    |
| shiva_001       | 11     | Sunkissed Today              | Soul music      | Empress Garden  |
| komalkanti0005  | 8      | Adventure On                 | Country music   | Parvati Hill    |
| appu_004        | 21     | Sipping On Sunshine          | Soul music      | Parvati Hill    |
| valerie_773     | 18     | Classy Me                    | Pop music       | Empress Garden  |
| shiva_001       | 11     | Sunkissed Today              | Soul music      | Empress Garden  |
| seanna_martin   | 3      | Chasing Sunsets              | Pop music       | Amanora Mall    |
| Robert_P        | 24     | Creating The Dream           | Hip Hop music   | Empress Garden  |
| nathen_009      | 17     | Making History               | Country music   | Amanora Mall    |
| elzibth_888     | 14     | Sparkle Like You Mean It     | Pop music       | Aga Khan Palace |
| tejashri4567    | 13     | Just Want To Have Fun        | Classical music | Parvati Hill    |
| nami12345       | 12     | Messy bun Getting work Done  | Indie Rock      | Koland          |
| komalkanti0005  | 8      | Adventure On                 | Country music   | Parvati Hill    |
| appu_004        | 21     | Sipping On Sunshine          | Soul music      | Parvati Hill    |
| zoro_007        | 20     | Determined To Rise           | Heavy Metal     | Amanora Mall    |
| seanna_martin   | 3      | Chasing Sunsets              | Pop music       | Amanora Mall    |
| sanjanna06      | 4      | Embracing Me                 | Rock music      | Sinhagad        |
| R_D_J           | 25     | Classy With A Side Of Sassy8 | Country music   | Amanora Mall    |
| nathen_009      | 17     | Making History               | Country music   | Amanora Mall    |
| valerie_773     | 18     | Classy Me                    | Pop music       | Empress Garden  |
| shiva_001       | 11     | Sunkissed Today              | Soul music      | Empress Garden  |
| Robert_P        | 24     | Creating The Dream           | Hip Hop music   | Empress Garden  |
| just_manas_here | 2      | Confidence Level             | Blues           | Lal Mahal       |
| appu_004        | 21     | Sipping On Sunshine          | Soul music      | Parvati Hill    |
| zoro_007        | 20     | Determined To Rise           | Heavy Metal     | Amanora Mall    |
| valerie_773     | 18     | Classy Me                    | Pop music       | Empress Garden  |
| shiva_001       | 11     | Sunkissed Today              | Soul music      | Empress Garden  |
| Robert_P        | 24     | Creating The Dream           | Hip Hop music   | Empress Garden  |
| luffy0010       | 6      | Wander Often                 | Hip Hop music   | Shivneri Fort   |
| sanjanna06      | 4      | Embracing Me                 | Rock music      | Sinhagad        |
| noha_008        | 16     | In A Relationship            | Folk music      | Lonavala        |
| n_ch_309        | 19     | Unapologetically Me          | Rock music      | Lonavala        |
| h_ar_s_h        | 10     | Slaying All Day              | Funk            | Lonavala        |

Question 14: Select Mention from table 1 and User Id from table 2

Ans:

```

• SELECT h.Mention, u.Userid
  FROM highlight_story h
 JOIN user2 u ON h.Mention = u.Userid;

```



| Mention         | Userid          |
|-----------------|-----------------|
| saloni005       | saloni005       |
| h_a-r_s_h       | h_a-r_s_h       |
| seanna_martin   | seanna_martin   |
| nathen-009      | nathen-009      |
| nami12345       | nami12345       |
| sanjanna06      | sanjanna06      |
| just_manas_here | just_manas_here |
| zoro__007       | zoro__007       |
| 0001_priya      | 0001_priya      |
| mary_3456       | mary_3456       |
| krish003        | krish003        |
| appu_004        | appu_004        |
| vallarie__773   | vallarie__773   |
| 0001_priya      | 0001_priya      |
| luffy10010      | luffy10010      |
| krish003        | krish003        |
| tejashri 4567   | tejashri 4567   |
| zoro__007       | zoro__007       |
| noha__008       | noha__008       |
| komalkanti0005  | komalkanti0005  |
| sanjanna06      | sanjanna06      |
| R_D_J           | R_D_J           |
| Robert_P        | Robert_P        |
| noha__008       | noha__008       |
| prachi_889      | prachi_889      |

Question 15: Select count from User Id who have never Mentioned anyone

Ans:

- ```

SELECT COUNT(u.Userid) AS count_never_mentioned
FROM user2 u
LEFT JOIN highlight_story h ON u.Userid = h.Mention
WHERE h.Mention IS NULL;

```

	count_never_mentioned
►	5

Question 16: Select User Id who have Used Hip Hop music

Ans:

- ```
SELECT DISTINCT Userid
FROM post2
WHERE Music = 'Hip Hop music';
```

|   | Userid     |
|---|------------|
| ▶ | luffy10010 |
|   | Robert_P   |
| * | NULL       |

Question 17: Select Username who have Post Id 18

Ans:

- ```
SELECT u.Username
FROM user2 u
JOIN post2 p ON u.Userid = p.Userid
WHERE p.Postid = '18';
```

	Username
▶	Vallarie

Question 18: Select Username who have Active Likes in Post Id 4000 to 9000

Ans:

- ```
SELECT DISTINCT u.Username
FROM user2 u
JOIN likes l ON u.Userid = l.Userid
WHERE l.Postid BETWEEN '4000' AND '9000' AND l.Active_likes = 'Yes';
```

|   | Username |
|---|----------|
| ▶ | Manas    |
|   | Nathen   |
|   | Zoro     |

Question 19: Select male in Empress Gargen and Lal Mahal Location

Ans:

- ```
SELECT DISTINCT u.Username
FROM user2 u
JOIN post2 p ON u.Userid = p.Userid
WHERE (p.Location = 'Empress Garden' OR p.Location = 'Lal Mahal') AND u.Gender = 'M';
```

	Username
▶	Manas
	Krish
	Robert
	Shiva

Question 20: Select User Id whose Caption Is Born To Fly

Ans:

- ```
SELECT DISTINCT p.Userid
FROM post2 p
WHERE p.Caption = 'Born To Fly';
```

|   | Userid  |
|---|---------|
| ▶ | h_ast_j |
| * | NULL    |

# Assignment 5

Question 21: Select User Id whose Post Id is 10 in Lonavala Location

Ans:

- ```
SELECT p.Userid
FROM post2 p
WHERE p.Postid = '10' AND p.Location = 'Lonavala';
```

	Userid
▶	h_a-r_s_h
*	NULL

Question 22: Select User Id whose Music is Heavy Metal in Caption Determined To Rise

Ans:

- ```
SELECT p1.Userid
FROM post2 p1
JOIN post2 p2 ON p1.Userid = p2.Userid
WHERE p1.Music = 'Heavy Metal' AND p2.Caption = 'Determined To Rise';
```

|   | Userid    |
|---|-----------|
| ▶ | zoro__007 |

Question 23: Select User Id who has Mentioned zoro\_\_007 in Male gender

Ans:

- ```
SELECT u.Userid
FROM user2 u
JOIN highlight_story h ON u.Userid = h.Mention
WHERE h.Mention = 'zoro__007' AND u.Gender = 'M';
```

	Userid
▶	zoro__007
	zoro__007

Question 24: Select User Id with Post Id is greater than '05' with Caption Adventure On and Making History

Ans:

```
• SELECT DISTINCT u.Userid
  FROM user2 u
 JOIN post2 p ON u.Userid = p.Userid
 WHERE p.Postid > '05' AND (p.Caption = 'Adventure On' OR p.Caption = 'Making History');
```

Userid
komalkanti0005
nathen--009

Question 25: Select Email address with Indie Rock and User Id nami12345

Ans:

```
• SELECT u.Email
  FROM user2 u
 JOIN post2 p ON u.Userid = p.Userid
 WHERE p.Music = 'Indie Rock' AND u.Userid = 'nami12345';
```

Email
nami.@adypu.edu.in

Question 26: Select User Id who has Location Mulshi dam with Active like 'Yes'

Ans:

```
• SELECT DISTINCT u.Userid
  FROM user2 u
 JOIN post2 p ON u.Userid = p.Userid
 JOIN likes l ON p.Postid = l.Postid
 WHERE p.Location = 'Mulshi dam' AND l.Active_likes = 'Yes';
```

Userid
--------

Question 27: Select User Id whose Caption Embracing Me in Sinhagad Location

Ans:

- ```
SELECT p.Userid
FROM post2 p
JOIN user2 u ON p.Userid = u.Userid
WHERE p.Caption = 'Embracing Me' AND p.Location = 'Sinhagad';
```

---

|              |
|--------------|
| Userid       |
| ▶ sanjanna06 |

Question 28: Select Email address with Pop music in Caption Chasing Sunsets

Ans:

- ```
SELECT u.Email
FROM user2 u
JOIN post2 p ON u.Userid = p.Userid
WHERE p.Caption = 'Chasing Sunsets' AND p.Music = 'Pop music';
```

---

Email
▶ seanna.martin@adypu.edu.in

Question 29: Select User Id with Mention nathen--008 in Location Empress Garden

Ans:

- ```
SELECT h.Userid
FROM highlight_story h
JOIN user2 u ON h.Userid = u.Userid
WHERE h.Mention = 'nathen--008' AND h.Location = 'Empress Garden';
```

---

|                      |
|----------------------|
| Email                |
| ▶ nami.@adypu.edu.in |

Question 30: Select Post Id with Username starting 's' and Active likes 'No'

Ans:

- ```
SELECT DISTINCT p.Postid
FROM user2 u
JOIN post2 p ON u.Userid = p.Userid
JOIN likes l ON p.Postid = l.Postid
WHERE u.Username LIKE 's%' AND Active_likes = 'No';
```

	Userid
▶	seanna_martin
*	NULL

