

Database Schema and Summary of Foreign Keys

Table: customuser

Column	Data Type	Constraint
id	BIGINT (auto)	Primary Key (auto-generated)
username	VARCHAR(150)	Unique, Not Null
first_name	VARCHAR(30)	Nullable
last_name	VARCHAR(150)	Nullable
email	VARCHAR(254)	Nullable
password	VARCHAR(128)	Not Null
is_staff	BOOLEAN	Default: False
is_active	BOOLEAN	Default: True
created_at	DATETIME	Default: now()

Table: userloginhistory

Column	Data Type	Constraint
id	BIGINT (auto)	Primary Key (auto-generated)
user_id	VARCHAR(150)	Foreign Key (customuser.username)
timestamp	DATETIME	Auto Generated, Not Null

Table: userpost

Column	Data Type	Constraint
id	BIGINT (auto)	Primary Key (auto-generated)
caption	TEXT	Not Null
post_url	VARCHAR(200)	Not Null
background_music_url	VARCHAR(200)	Nullable
category	VARCHAR(50)	Choices: 'Tech', 'Entertainment', 'Business', 'Other'
datetime_posted	DATETIME	Auto Generated, Not Null
publisher_id	VARCHAR(150)	Foreign Key (customuser.username)
is_public	BOOLEAN	Default: True

Table: userprofile

Column	Data Type	Constraint
id	BIGINT (auto)	Primary Key (auto-generated)
user_id	VARCHAR(150)	Foreign Key (customuser.username)
name	VARCHAR(100)	Not Null
profile_pic	VARCHAR(300)	Nullable
bio	VARCHAR(200)	Nullable
dob	DATE	Nullable

Table: follow

Column	Data Type	Constraint
id	BIGINT (auto)	Primary Key (auto-generated)
follower_id	VARCHAR(150)	Foreign Key (customuser.username)
following_id	VARCHAR(150)	Foreign Key (customuser.username)
created_at	DATETIME	Auto Generated, Not Null
UNIQUE Constraint	('follower_id', 'following_id')	Prevents duplicate follow entries

Table: likepost

Column	Data Type	Constraint
id	BIGINT (auto)	Primary Key (auto-generated)
user_id	VARCHAR(150)	Foreign Key (customuser.username)
post_id	BIGINT	Foreign Key (userpost.id)
created_at	DATETIME	Auto Generated, Not Null
UNIQUE Constraint	('user_id', 'post_id')	Prevents duplicate likes by the same user

Table: commentpost

Column	Data Type	Constraint
id	BIGINT (auto)	Primary Key (auto-generated)
user_id	VARCHAR(150)	Foreign Key (customuser.username)
post_id	BIGINT	Foreign Key (userpost.id)
text	TEXT	Not Null

Column	Data Type	Constraint
created_at	DATETIME	Auto Generated, Not Null

Summary of Foreign Keys

- userloginhistory.user_id → customuser.username
- userpost.publisher_id → customuser.username
- userprofile.user_id → customuser.username
- follow.follower_id → customuser.username
- follow.following_id → customuser.username
- likepost.user_id → customuser.username
- likepost.post_id → userpost.id
- commentpost.user_id → customuser.username
- commentpost.post_id → userpost.id