|  |  |  |
| --- | --- | --- |
| Id (PK) | Username | Created\_at |
|  |  |  |
|  |  |  |

|  |  |  |  |
| --- | --- | --- | --- |
| Id (PK) | Image\_url | user\_id (FK) | Created\_dat |
|  |  |  |  |
|  |  |  |  |

photos table

users table

PK

|  |  |  |
| --- | --- | --- |
| user\_id  (FK) | photo\_id (FK) | created\_at |
|  |  |  |
|  |  |  |

|  |  |
| --- | --- |
| photo\_id | photo\_likes |
|  |  |
|  |  |

photo\_likes\_count

likes table

First we have to identify the photo\_id from likes table with the maximum number of likes. Then we join this new table, let’s call it “photo\_likes\_count” table to the “user\_photos” temporary table **on** photo\_likes\_count.photo\_id = user\_photos.photo\_id;

|  |  |  |  |
| --- | --- | --- | --- |
| user\_id | photo\_id | image\_url | username |
|  |  |  |  |
|  |  |  |  |

user\_photos

|  |  |  |
| --- | --- | --- |
| id (PK) | tagname | created\_at |
|  |  |  |
|  |  |  |

|  |  |  |  |
| --- | --- | --- | --- |
| id (PK) | Image\_url | user\_id (FK) | Created\_dat |
|  |  |  |  |
|  |  |  |  |

photos table

tags table

|  |  |
| --- | --- |
| photo\_id (FK) | tag\_id (FK) |
|  |  |
|  |  |

photo\_tags table

First we need to identify the tag\_id which is used most number of times from the photo\_tags table. We create a temporary table called tags\_count with this data. Next we map the tag\_id from the tags\_count table to the tags table as tags\_count.tag\_id = tags.id to identify the tag names.

First we need to identify how many photos have each user created. Next we have to find the average number of photos of one user which is nothing but total number of photos of one user / total number of all user photos.