DATABASE MANAGEMENT SYSTEMS

PART-I

FACEBOOK

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REQUIREMEN OF FACEBOOK

USER → (User_id, Fname, Lname, E-mail, Phone_number, Sex, Password, Created-at)

PROFILE → (Profile_id, School, Job, City, Hometown, Status_of_Relationship)

SOCIAL → (Social_id, Social_name, Social_admin, Social_created_at)
                                          Mutivalued

GROUP → (Announcement_id, Announcement, Announcement_date)

PAGE → (About)

ACTIVITY → (Activity_description, Location, Start-date, End-date)

EXECUTOR → (Executor_id)

POST → (Post_id, Post_date)

SHARE → (Share_id, Total_like, Total_comment)

TEXT → (Share_text)

MEDIA → (Media_name)

PHOTO → (Photo_id)

VIDEO → (Video_id)

FRIEND → (User_one_id, User_two_id, Started_at)

FRIEND_REQUEST → (To_user_id, From_user_id, Status_of_Request, Request_date)

MESSAGE → (To_User_id, From_user_id, Send_date)

FAVORITE → (Favorite_name)

FAVORITE_OF_USER → (Name)

COMMLIKE → (Comm_like_id)

LIKE → (Cm_like)

COMMENT → (Comment_text)

PARTCIPATE → (Participate_date)

FIRST ITERATION

Step 1:

FAVORITE {Favorite_Type}

Step 2:

EXECUTOR {Executor_id}

SECOND ITERATION

Step 1:

USER {User_id, F.name, L.name, Email, Phone_number, Sex, Face_password, Executor_id, Created_at}

SOCIAL {Social_id, Social_name, Social_type, Executor_id, Social_created_at}

SHARE {Share_id, Total_like, Total_comment, Share_date

COMMLIKE {Comm_like_id, Commlike_type, Commlike_date}

Step 2:

PROFILE {Profil_id, Schooll, Job, City, Hometown, Status_of_Relation}

Step 4:

SHARE {Share_id, Executor_id, Total_like, Total_comment, Share_date}
SOCIAL {Social_id, User_id, Social_name, Social_type, Executor_id, Social_date}
COMMLIKE {Comm_like_id, Share_id, Executor_id, Commlike_type, Commlike_date}

Step 5:

PARTICIPATE {User_id, Social_id, Participat_date}
FRIEND {User_one_id, User_two_id, Started_at}
FRIEND-REQUEST {To-user_id, From_user_id, Status_of_request, Request_date}
MESSAGE {To_user_id, From_user_id, Message_id, Message_text, Send_date}

FAVORITE_OF_USER {Profil_id, Favorite_type, Favorit_name}

Step 6:

SOCIAL_ADMIN { <u>Social_id, Admin_id</u> , Started_at }

Step 8_A :

SHARE { <u>Share_id</u> , Executor_id, Total_like , Total_comment, Share_date }

MEDIA { <u>Share_id</u> , Media_type, Media_name }

TEXT { <u>Share_id</u> , Share_text }

SOCIAL { <u>Social_id</u>, User_id, Social_name , social_type, Executor_id, Social_created_at }

GROUP { <u>Social_id, Announcement_id</u> , Announcemet, Announcement_date }

PAGE { <u>Social_id</u> , About }

ACTIVITY { <u>Social_id</u> , Activity_description, Location, Start_date, End_date }

COMMLIKE { <u>Comm_like_id</u> , Share_id, Executor_id, Commlike_type, Commlike_date }

COMMENT { <u>Comm_like_id</u> , Comment_text }

LIKE { <u>comm_like_id</u>, Cm_like }

THIRD ITERATON
step 8_A
MEDIA { <u>Share_id</u> , Media_type , Media_name }

VIDEO { <u>Share_id</u> }

PHOTO { <u>Share_id</u> }

FOURTH ITERATON :
Step 3
PROFILE { <u>Profile_id</u> , share_id, School, Job , City , Hometown , Status_of_Reletion , Photo_id }

Step 4:

PHOTO { <u>Share_id</u> , Profile_id }

USER{User_id, Fname, Lname, Email, Phone_number, Sex, Face_password,
    Executor_id, Created_at}

PROFILE{Profile_id, School, Job, city, Hometown, Photo_id, Status_of_relation}

FAVORITE{Favorite_type}

PARTICIPATE {User_id, Social_id, participat_date}

FRIEND{ User_one_id, User_two_id, Started_at}

FRIEND_REQUEST { To_user_id, From_user_id, Status_of_request, Request_date}

MESSAGE{ To_User_id, From_user_id, Message_id, Message_text, Send_date}

FAVORITE_OF_USER {Profile_id, Favorite_type, Favorit_name}

EXECUTOR { Executor_id }

SOCIAL_ADMIN { Social_id, Admin_id, Started_at

GROUP {Social_id, Announcement_id, Announcement, Announcement_date}

PAGE { Social_id, About}

ACTIVITY{Social_id, Activity_description, Location, Start_date, End_date}

SHARE{ Share_id, Executor_id, Total_like, Total_comment, Share_date}

MEDIA{ Share_id, Media_type, Media_name}

VIDEO { Share_id }

PHOTO{ Share_id, Profile_id}

TEXT{Share_id, Sh_text}

COMMLIKE {Commlike_id, Share_id, Executor_id, Commlike_type, Commlike_date}

COMMENT { commlike_id, Comment_text}

LIKE{ Commlike_id, cm_like}

FACEBOOK

Entities and relationships (ER diagram):

- EXECUTOR
  - EXE-COMM (1, (O,N))
  - EXE-SHARE ((O,M), 1)
- COMMLIKE (M, N (1,1))
  - J → LIKE, COMMENT
    - Comment_text
    - Cm-like
    - Cm-comment-text
- SHARE (M (1,1), 1 (O,M))
  - SH-content
  - J → MEDIA, TEXT
    - Share-text
- MEDIA
  - Media-name
  - J → PHOTO, VIDEO
- ALBUM (1 (O,M), M (O,1))
  - HAS-PHOTO ((1,1), 1 (O,1))
- PROFILE
  - HAS (1 (1,1), 1 (1,1)) → USER
  - Profile-id
  - School
  - Job
  - City
  - Hometown
  - Status-of-relation
- USER
  - User-id
  - Fname
  - Lname
  - E-mail
  - Phone-number
  - Sex
  - Face-password
  - Created-at
- CREATE (M (1,1), 1 (O,M)) → SOCIAL
- PARTICIPATE (N (O,M), M (O,N))
  - Part-date
- SOCIAL
  - Social-id
  - Social-name
  - Social-date
  - Social-Admin
- d → ACTIVITY, PAGE, GROUP
  - About
- ACTIVITY
  - Activity-desc
  - Location
  - Start-date
  - End-date
- GROUP
  - Announcement-id
  - Announcement
  - Announcement-date
- FRIEND (N (O,M), M (O,N))
  - Started-at
- FRIEND-REQUEST (N (O,M), M (O,N))
  - Status-of-req
  - Request-date
- MESSAGE (N (O,M), M (O,N))
  - Message-id
  - Message-text
  - Send-date
- FAVORITE-OF-USER (M (O,N), N (O,M))
- FAVORITE
  - Name