is607_Week8Assignment_BlogDB

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Solution 1:

http://learning.blogs.nytimes.com

This blog has comments and tags enabled and I've scanned the environment.

Solution 2:

Key Entities for the ER Diagram are:

db_User: A table that contains information including the Username, Password and Email Address of each user.

db_UserMetaInfo: A table that contains meta information about the User including VisitsPerMonth and LengthOfAccount(Months).

db_usercomments: A table that stores comment information including the username and the status/state of the user's comment (pending, removed, posted).

db_userposts: A table that contains information about posts including the username and the type of post that the user made (image, video, text).

(Please See Uploaded .PNG File of Hand Drawn ER Diagram).

Solution 3:

You can see script below in solution #4 for the create tables scripts.

Solution 4:

Create User Schema

– Schema: USER

– DROP SCHEMA "USER";

CREATE SCHEMA "USER" AUTHORIZATION postgres;

Create User Info Table

– Table: "USER"."UserINFO"

– DROP TABLE "USER"."UserINFO";

CREATE TABLE "USER"."UserINFO" ("Username" text, "Password" text, "Email" text) WITH (OIDS=FALSE); ALTER TABLE "USER"."UserINFO" OWNER TO postgres;

Populate User Info

INSERT INTO “USER”.“UserINFO” VALUES (‘trex’, ‘password2’, ’trex@gmail.com’); INSERT INTO “USER”.“UserINFO” VALUES (‘randoman’, ‘password3’, ’randoman@yahoo.com’); INSERT INTO “USER”.“UserINFO” VALUES (‘tbone’, ‘pass’, ’tbone@hotmail.com’);

SELECT * FROM “USER”.“UserINFO”

Results:

"trex";"password2";"trex@gmail.com" "randoman";"password3";"randoman@yahoo.com" "tbone";"passw";"tbone@hotmail.com"

Create User Meta Info Table

– Table: “USER”.“UserMetaInfo”

– DROP TABLE “USER”.“UserMetaInfo”;

CREATE TABLE “USER”.“UserMetaInfo” (“VisitsPerMonth” integer, “LengthOfAcct(Months)” integer) WITH (OIDS=FALSE); ALTER TABLE “USER”.“UserMetaInfo” OWNER TO postgres;

Populate User Meta Info Table

INSERT INTO “USER”.“UserMetaInfo” VALUES (‘24’,‘3’); INSERT INTO “USER”.“UserMetaInfo” VALUES (‘150’,‘10’); INSERT INTO “USER”.“UserMetaInfo” VALUES (‘44’,‘12’);

SELECT * FROM “USER”.“UserMetaInfo”

Results:

24;3 150;10 44;12

Create Posts Schema

– Schema: POSTS

– DROP SCHEMA “POSTS”;

CREATE SCHEMA “POSTS” AUTHORIZATION postgres;

– Table: “POSTS”.userposts

– DROP TABLE “POSTS”.userposts;

Create User Posts Table

CREATE TABLE “POSTS”.userposts (“User” text, “PostType” text) WITH (OIDS=FALSE); ALTER TABLE “POSTS”.userposts OWNER TO postgres;

Populate User Posts Table

INSERT INTO “POSTS”.“userposts” VALUES (‘trex’,‘image’); INSERT INTO “POSTS”.“userposts” VALUES (‘trex’,‘text’); INSERT INTO “POSTS”.“userposts” VALUES (‘tbone’,‘video’); INSERT INTO “POSTS”.“userposts” VALUES (‘randoman’,‘image’);

SELECT * FROM “POSTS”.“userposts”

Results:

“trex”;“image” “trex”;“text” “tbone”;“video” “randoman”;“image”

Create Comment Schema

– Schema: COMMENTS

– DROP SCHEMA “COMMENTS”;

CREATE SCHEMA “COMMENTS” AUTHORIZATION postgres;

Create User Comments Table

– Table: “COMMENTS”.usercomments

– DROP TABLE “COMMENTS”.usercomments;

CREATE TABLE “COMMENTS”.usercomments (“User” text, “CommentStatus” text) WITH (OIDS=FALSE); ALTER TABLE “COMMENTS”.usercomments OWNER TO postgres;

Populate User Comments Table

INSERT INTO “COMMENTS”.“usercomments” VALUES (‘trex’,‘pending’); INSERT INTO “COMMENTS”.“usercomments” VALUES (‘tbone’,‘posted’); INSERT INTO “COMMENTS”.“usercomments” VALUES (‘tbone’,‘pending’); INSERT INTO “COMMENTS”.“usercomments” VALUES (‘randoman’,‘removed’);

SELECT * FROM “COMMENTS”.“usercomments”

Results:

“trex”;“pending” “tbone”;“posted” “tbone”;“pending” “randoman”;“removed”

Solution 5:

Part 1

SELECT * FROM “COMMENTS”.“usercomments” CROSS JOIN “POSTS”.“userposts” WHERE “COMMENTS”.“usercomments”.“User” = “POSTS”.“userposts”.“User”

Results: “trex”;“pending”;“trex”;“text” “trex”;“pending”;“trex”;“image” “tbone”;“posted”;“tbone”;“video” “tbone”;“pending”;“tbone”;“video” “randoman”;“removed”;“randoman”;“image”

Part 2

SELECT * FROM “COMMENTS”.“usercomments” CROSS JOIN “POSTS”.“userposts” WHERE “COMMENTS”.“usercomments”.“User” = “POSTS”.“userposts”.“User” AND “POSTS”.“userposts”.“PostType” = ‘video’

Results: “tbone”;“posted”;“tbone”;“video” “tbone”;“pending”;“tbone”;“video”