/\*GameStudio\*/

drop table score;

drop table raiting;

drop table komentar;

drop table game;

drop table pouzivatel;

drop sequence idgame;

drop sequence iduser;

drop sequence idscore;

drop sequence idcoment;

drop view wu1;

drop view wu2;

drop view wu3;

drop view wu4;

drop view wu5;

drop view wu6;

drop view wu7;

drop view wu8;

drop view wu9;

drop view wu10;

drop view wu11;

drop view wu12;

drop view wu13;

drop view wu14;

drop view wu15;

/\*Creating tables:\*/

create table pouzivatel(id\_user int primary key, user\_name varchar(50) not null unique, user\_pass varchar (8) not null, email varchar (50) not null unique,

datum\_registracie date not null, is\_autor char default 'N' check (is\_autor in ('Y','N')));

create table game(id\_game int PRIMARY KEY, game\_name varchar(50) not null unique, autor int not null, datum\_pridania date not null, url\_hry varchar(200) not null unique,

FOREIGN KEY(autor) REFERENCES pouzivatel(id\_user));

create table score(id\_score int primary key, score int not null check(score >=0 and score < 1000000), id\_game int not null, id\_user int not null, datum\_nahrania date not null,

FOREIGN KEY(id\_game) REFERENCES game(id\_game), FOREIGN KEY(id\_user) REFERENCES pouzivatel(id\_user));

create table raiting(raiting int not null check(raiting>=1 and raiting <=5), id\_game int not null, id\_user int not null, primary key (id\_user, id\_game),

FOREIGN KEY(id\_game) REFERENCES game(id\_game), FOREIGN KEY(id\_user) REFERENCES pouzivatel(id\_user));

create table komentar(id\_komentara int primary key, id\_game int not null, id\_user int not null, komentar varchar(500) not null,

FOREIGN KEY(id\_game) REFERENCES game(id\_game), FOREIGN KEY(id\_user) REFERENCES pouzivatel(id\_user));

/\*Inserting into tables:\*/

CREATE SEQUENCE idgame START WITH 1 INCREMENT BY 1;

CREATE SEQUENCE iduser START WITH 1 INCREMENT BY 1;

CREATE SEQUENCE idscore START WITH 1 INCREMENT BY 1;

CREATE SEQUENCE idcoment START WITH 1 INCREMENT BY 1;

insert into pouzivatel (id\_user, user\_name, user\_pass, email, DATUM\_REGISTRACIE, IS\_AUTOR) values (iduser.nextval, 'Peter Pavol', '12345678', 'peter.pavol@gmail.com', '01/01/2001', 'Y');

insert into pouzivatel (id\_user, user\_name, user\_pass, email, DATUM\_REGISTRACIE, IS\_AUTOR) values (iduser.nextval, 'nerty', '23456789', 'nejakyemail@gmail.com', '01/02/2001', 'N');

insert into pouzivatel (id\_user, user\_name, user\_pass, email, DATUM\_REGISTRACIE, IS\_AUTOR) values (iduser.nextval, 'Dalibor Adamčík', '55555', 'r4d1k@gmail.com', '01/03/2001', 'Y');

insert into pouzivatel (id\_user, user\_name, user\_pass, email, DATUM\_REGISTRACIE) values (iduser.nextval, 'andrew', '66666', 'andrew.1@gmail.com', '01/04/2001');

insert into pouzivatel (id\_user, user\_name, user\_pass, email, DATUM\_REGISTRACIE) values (iduser.nextval, 'deathbringer', '1365447', 'dede.cata@gmail.com', '01/05/2001');

/\*select \* from POUZIVATEL;\*/

insert into game (id\_game, game\_name, autor, datum\_pridania, url\_hry) values (idgame.nextval, 'minesweeper', '1', '28/06/2016', 'www.minesweeper.com');

insert into game (id\_game, game\_name, autor, datum\_pridania, url\_hry) values (idgame.nextval, 'DooM', '1', '28/05/2016', 'www.doom.com');

insert into game (id\_game, game\_name, autor, datum\_pridania, url\_hry) values (idgame.nextval, 'WoW', '1', '28/09/2016', 'www.worldofwarcraft.com');

insert into game (id\_game, game\_name, autor, datum\_pridania, url\_hry) values (idgame.nextval, 'Solitare', '2', '28/08/2016', 'www.solitare.com');

insert into game (id\_game, game\_name, autor, datum\_pridania, url\_hry) values (idgame.nextval, 'Bomberman', '2', '28/07/2016', 'www.bomberman.com');

/\*select \* from game;\*/

insert into score (id\_score, score, id\_game, id\_user, datum\_nahrania) values (idscore.nextval, 12564, 1, 4, '28/07/2016');

insert into score (id\_score, score, id\_game, id\_user, datum\_nahrania) values (idscore.nextval, 22564, 1, 4, '29/07/2016');

insert into score (id\_score, score, id\_game, id\_user, datum\_nahrania) values (idscore.nextval, 32564, 2, 1, '21/07/2016');

insert into score (id\_score, score, id\_game, id\_user, datum\_nahrania) values (idscore.nextval, 42564, 1, 1, '22/07/2016');

insert into score (id\_score, score, id\_game, id\_user, datum\_nahrania) values (idscore.nextval, 52564, 2, 2, '23/07/2016');

insert into score (id\_score, score, id\_game, id\_user, datum\_nahrania) values (idscore.nextval, 62564, 3, 1, '24/07/2016');

insert into score (id\_score, score, id\_game, id\_user, datum\_nahrania) values (idscore.nextval, 72564, 3, 3, '25/07/2016');

insert into score (id\_score, score, id\_game, id\_user, datum\_nahrania) values (idscore.nextval, 82564, 4, 3, '26/07/2016');

insert into score (id\_score, score, id\_game, id\_user, datum\_nahrania) values (idscore.nextval, 92564, 4, 2, '27/07/2016');

insert into score (id\_score, score, id\_game, id\_user, datum\_nahrania) values (idscore.nextval, 56984, 4, 4, '28/07/2016');

/\*select \* from score;\*/

insert into raiting(raiting, id\_game, id\_user) values (1, 1, 1);

insert into raiting(raiting, id\_game, id\_user) values (2, 2, 4);

insert into raiting(raiting, id\_game, id\_user) values (4, 3, 3);

insert into raiting(raiting, id\_game, id\_user) values (4, 2, 3);

insert into raiting(raiting, id\_game, id\_user) values (4, 4, 2);

insert into raiting(raiting, id\_game, id\_user) values (5, 4, 1);

insert into raiting(raiting, id\_game, id\_user) values (3, 1, 2);

/\*select \* from raiting;\*/

insert into komentar (id\_komentara, id\_game, id\_user, komentar) values (idcoment.nextval, 1, 1, 'ok');

insert into komentar (id\_komentara, id\_game, id\_user, komentar) values (idcoment.nextval, 1, 2, 'not ok');

insert into komentar (id\_komentara, id\_game, id\_user, komentar) values (idcoment.nextval, 1, 3, 'celkom ok');

insert into komentar (id\_komentara, id\_game, id\_user, komentar) values (idcoment.nextval, 1, 4, 'uslo');

insert into komentar (id\_komentara, id\_game, id\_user, komentar) values (idcoment.nextval, 2, 1, 'mohla byt lepsia');

insert into komentar (id\_komentara, id\_game, id\_user, komentar) values (idcoment.nextval, 2, 2, 'pecka');

insert into komentar (id\_komentara, id\_game, id\_user, komentar) values (idcoment.nextval, 3, 3, 'luxus hra');

insert into komentar (id\_komentara, id\_game, id\_user, komentar) values (idcoment.nextval, 3, 1, 'krdy bude dalsie vydanie?');

insert into komentar (id\_komentara, id\_game, id\_user, komentar) values (idcoment.nextval, 4, 2, 'chcem datadisk :D :D :D');

insert into komentar (id\_komentara, id\_game, id\_user, komentar) values (idcoment.nextval, 4, 1, 'jej solitare');

/\*select \* from komentar;\*/

/\*SELECTING FROIM TABLES:\*/

/\*1. Zoznam hráčov utriedený podľa dátumu registrácie\*/

create view wu1 as

select \* from pouzivatel order by DATUM\_REGISTRACIE;

/\*2. Zoznam hier\*/

create view wu2 as

select game\_name from game;

/\*3. Zoznam hier s komentármi a menami používateľov\*/

create view wu3 as

select k.komentar, g.game\_name, p.USER\_NAME from komentar k join pouzivatel p on p.ID\_USER = k.ID\_USER join game g on k.ID\_GAME = g.ID\_GAME;

/\*4. Hráč s najdlhším menom\*/

create view wu4 as

select user\_name from pouzivatel where length(user\_name) = (select max(length(user\_name)) from pouzivatel);

/\*5. Zoznam hier, ktoré nehral nikto (nemajú záznam v Score)\*/

create view wu5 as

select g.game\_name, s.score from game g left join score s on s.ID\_GAME = g.ID\_GAME where s.score is null;

/\*6. Zoznam používateľov, ktorí nehodnotili žiadnu hru\*/

create view wu6 as

select p.user\_name, s.score from pouzivatel p left join score s on s.ID\_USER = p.ID\_USER where s.score is null;

/\*7. Zoznam používateľov, ktorí nehodnotili jednu konkrétnu hru (napr. Minesweeper)\*/

/\*create view g\_u as

select p.user\_name, g.game\_name, g.ID\_GAME, p.id\_user from game g cross join pouzivatel p;

select gu.user\_name, gu.game\_name, r.RAITING from g\_u gu left join raiting r on r.ID\_user = gu.ID\_user and r.ID\_GAME = gu.ID\_GAME where r.RAITING is null and gu.GAME\_NAME like 'minesweeper';\*/

/\* alebo aj takto \*/

create view wu7 as

select gu.user\_name, gu.game\_name, r.RAITING from (select p.user\_name, g.game\_name, g.ID\_GAME, p.id\_user from game g cross join pouzivatel p) gu

left join raiting r on r.ID\_user = gu.ID\_user and r.ID\_GAME = gu.ID\_GAME where r.RAITING is null and gu.GAME\_NAME like 'minesweeper';

/\*8. Počet hier, počet hráčov, počet komentárov, počet hodnotení\*/

create view wu8 as

select \* from

(select count(\*) as game\_count from game) natural join

(select count(\*) as user\_count from pouzivatel) natural join

(select count(\*) as raiting\_count from raiting)natural join

(select count(\*) as koment\_count from komentar);

/\*9. Najstaršia hra\*/

create view wu9 as

select game\_name from game where DATUM\_PRIDANIA = (select min(datum\_pridania) from game);

/\*10. Zoznam hier s ich priemerným ratingom a počtom hodnotení\*/

create view wu10 as

select g.game\_name, count(r.raiting) as pocet\_hodnoteni, avg(r.raiting) as priemerne\_hodnotenie from game g join raiting r on r.ID\_GAME = g.ID\_GAME group by g.game\_name;

/\*11. Najviac komentované hry\*/

create view wu11 as

select nazov\_hry from (select g.game\_name as nazov\_hry, count(g.game\_name) as pocet\_komentarov from game g join komentar k on k.ID\_GAME = g.ID\_GAME group by g.GAME\_NAME)

where pocet\_komentarov = (select max(pocet\_komentarov) from (select g.game\_name as nazov\_hry, count(g.game\_name) as pocet\_komentarov from game g join komentar k on k.ID\_GAME = g.ID\_GAME group by g.GAME\_NAME));

/\*12. Zoznam hráčov s ich počtom hraním hier a celkovým skóre, ktoré nahrali \*/

create view wu12 as

select p.user\_name, sum(s.score) as totalne\_nahrate\_score, count(s.id\_user) as pocet\_hrani\_hier from score s join pouzivatel p on s.ID\_USER = p.ID\_USER group by p.user\_name;

/\*13. Meno hráča, ktorý hral naposledy hru\*/

create view wu13 as

select p.user\_name, s.DATUM\_NAHRANIA from pouzivatel p join score s on s.ID\_USER = p.ID\_USER where s.DATUM\_NAHRANIA = (select max(datum\_nahrania) from score);

/\*14. Počet komentárov pre najobľúbenejšiu hru\*/

/\*create view hry\_a\_hodnotenia as

select g.ID\_GAME as id\_hry, g.game\_name as meno\_hry, avg(r.raiting) as priemerne\_hodnotenie from game g join raiting r on r.ID\_GAME = g.ID\_GAME group by g.game\_name, g.ID\_GAME;

create view best\_game as

select id\_hry, meno\_hry, priemerne\_hodnotenie from

(hry\_a\_hodnotenia)

where priemerne\_hodnotenie = (select max(priemerne\_hodnotenie) from

(hry\_a\_hodnotenia));

select meno\_hry, count(k.komentar) from best\_game b join komentar k on b.ID\_HRY = k.id\_game group by b.MENO\_HRY;\*/

/\* alebo aj takto \*/

create view wu14 as

select meno\_hry, count(k.komentar) as pocet\_komentarov from (select id\_hry, meno\_hry, priemerne\_hodnotenie from

(select g.ID\_GAME as id\_hry, g.game\_name as meno\_hry, avg(r.raiting) as priemerne\_hodnotenie from game g join raiting r on r.ID\_GAME = g.ID\_GAME group by g.game\_name, g.ID\_GAME)

where priemerne\_hodnotenie = (select max(priemerne\_hodnotenie) from

(select g.ID\_GAME as id\_hry, g.game\_name as meno\_hry, avg(r.raiting) as priemerne\_hodnotenie from game g join raiting r on r.ID\_GAME = g.ID\_GAME group by g.game\_name, g.ID\_GAME))) b

join komentar k on b.ID\_HRY = k.id\_game group by b.MENO\_HRY;

/\*15. Mená hráčov s počtom komentárov, ktoré pridali k hrám\*/

create view wu15 as

select p.user\_name, count(k.komentar) as pocet\_komentarov from pouzivatel p join komentar k on p.ID\_USER = k.ID\_USER group by p.user\_name;

/\*MAKING INDEXES:\*/

/\*Kedze nie je mozne vytvarat indexy nad primary key a nad unique stlpcami, tak niekde su vytvorene nejake navyse\*/

CREATE INDEX ix\_komentar ON komentar (id\_komentara, id\_game);

CREATE INDEX ix\_pouzivatel ON pouzivatel (user\_pass);

CREATE INDEX ix\_score ON score (score);

CREATE INDEX ix\_raiting ON raiting (raiting);

/\*SHOWING VIEWS\*/

/\*

select \* from wu1;

select \* from wu2;

select \* from wu3;

select \* from wu4;

select \* from wu5;

select \* from wu6;

select \* from wu7;

select \* from wu8;

select \* from wu9;

select \* from wu10;

select \* from wu11;

select \* from wu12;

select \* from wu13;

select \* from wu14;

select \* from wu15;

\*/