# УО «Белорусский государственный университет информатики и радиоэлектроники» Кафедра ПОИТ

Отчёт по лабораторной работе №5 По предмету Базы данных

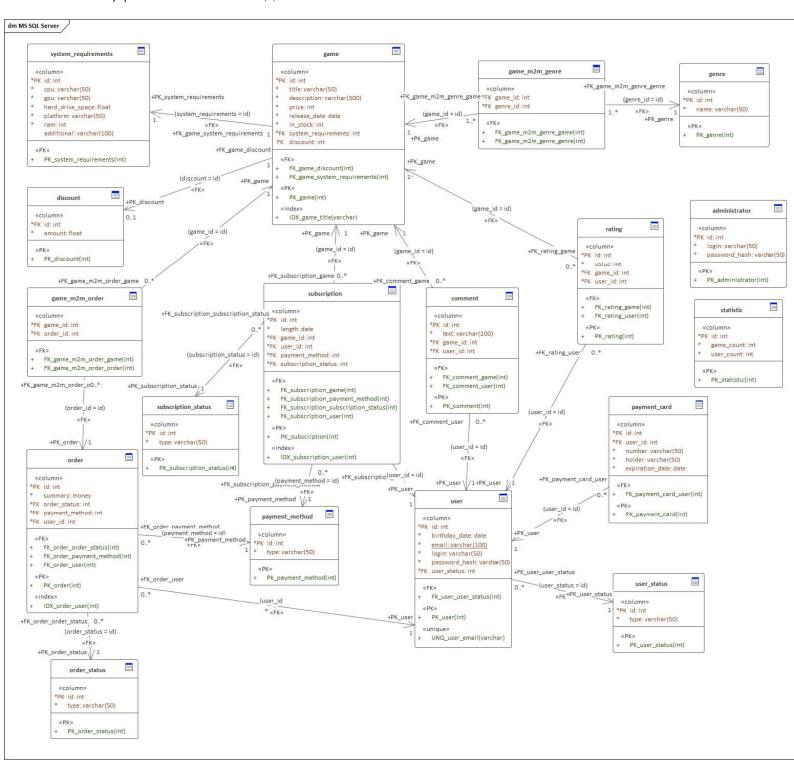
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Группа 851005

## Предметная область: Интернет-магазин компьютерных игр

#### Даталогическая модель:



#### 1) Права доступа:

Были созданы следующие роли: Администратор, Модератор, Пользователь, Гость. Далее прилагается SQL-код для настройки:

```
--Administrator
```

DROP USER IF EXIST `administrator`@`localhost`; CREATE USER `administrator `@`localhost` IDENTIFIED BY <complex password>;

GRANT ALL PRIVILEGES ON \* TO 'administrator '@'localhost';

--Moderator

DROP USER IF EXIST 'moderator'@'localhost';

CREATE USER 'moderator'@'localhost' IDENTIFIED BY <complex password>

**GRANT** UPDATE. `comment TO INSERT, SELECT, DELETE ON 'moderator'@'localhost';

GRANT SELECT ON 'rating' TO 'moderator'@'localhost';

GRANT SELECT ON `subscription` TO 'moderator'@'localhost';

GRANT SELECT, UPDATE ON 'subscription status' TO 'moderator'@'localhost';

GRANT SELECT ON `order` TO 'moderator'@'localhost';

GRANT SELECT, UPDATE ON 'order status' TO 'moderator'@'localhost';

GRANT INSERT, SELECT, UPDATE, DELETE ON `game` TO 'moderator'@'localhost';

GRANT SELECT, UPDATE ON `game\_m2m\_order` TO 'moderator'@'localhost'; GRANT SELECT, UPDATE ON `system\_requirements` TO 'moderator'@'localhost';

GRANT INSERT, SELECT, UPDATE, DELETE ON `genre` TO 'moderator'@'localhost';

GRANT SELECT, UPDATE ON `game\_m2m\_genre` TO 'moderator'@'localhost';

**GRANT** INSERT, SELECT, UPDATE, **DELETE** ON 'discount' TO 'moderator'@'localhost';

GRANT SELECT ON 'payment method' TO 'moderator'@'localhost';

GRANT SELECT ON `user` TO 'moderator'@'localhost';

GRANT SELECT, UPDATE ON 'user status' TO 'moderator'@'localhost';

GRANT INSERT, SELECT, UPDATE, DELETE ON `statistic` TO 'moderator'@'localhost';

--User

DROP USER IF EXISTS 'user'@'localhost';

CREATE USER 'user'@'localhost' IDENTIFIED BY '<complex password>';

GRANT SELECT ON `comment ` TO 'user'@'localhost';

GRANT SELECT ON 'rating' TO 'user'@'localhost';

GRANT SELECT ON 'subscription' TO 'user'@'localhost';

GRANT SELECT ON 'subscription status' TO 'user'@'localhost';

GRANT SELECT ON 'order' TO 'user'@'localhost';

GRANT SELECT ON `order\_status` TO 'user'@'localhost'; GRANT SELECT ON `game` TO 'user'@'localhost';

GRANT SELECT ON `game m2m order` TO 'user'@'localhost';

GRANT SELECT ON `system requirements ` TO 'user'@'localhost';

GRANT SELECT ON 'genre' TO 'user'@'localhost';

GRANT SELECT ON `game\_m2m\_genre` TO 'user'@'localhost';

GRANT SELECT ON 'discount' TO 'user'@'localhost';

GRANT SELECT ON 'payment method' TO 'user'@'localhost';

GRANT SELECT ON `user` TO 'user'@'localhost';

GRANT SELECT ON 'user status' TO 'user'@'localhost';

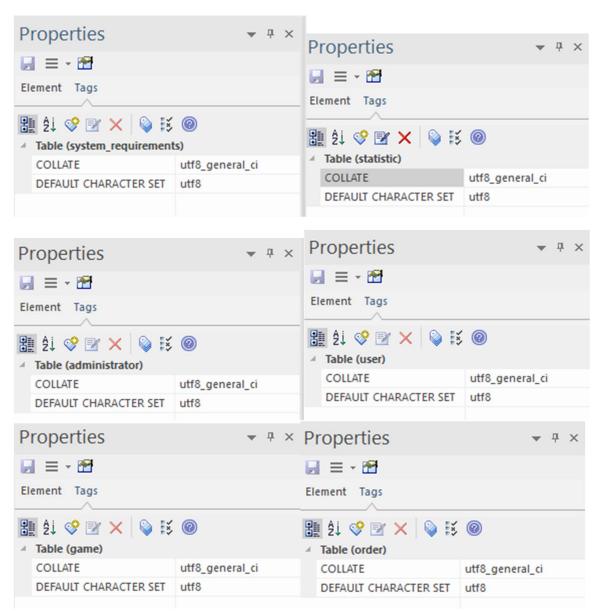
GRANT SELECT ON `statistic` TO 'user'@'localhost';

#### --Guest DROP USER IF EXISTS 'guest'@'localhost'; CREATE USER 'guest'@'localhost' IDENTIFIED BY '<complex password>'; GRANT SELECT ON `comment ` TO 'guest'@'localhost'; GRANT SELECT ON 'rating' TO 'guest'@'localhost'; GRANT SELECT ON 'subscription' TO 'guest'@'localhost'; GRANT SELECT ON `subscription\_status` TO 'guest'@'localhost'; GRANT SELECT ON `order` TO 'guest'@'localhost'; GRANT SELECT ON `order\_status` TO 'guest'@'localhost'; GRANT SELECT ON `game` TO 'guest'@'localhost'; GRANT SELECT ON `game\_m2m\_order` TO 'guest'@'localhost'; GRANT SELECT ON 'system requirements ' TO 'guest'@'localhost'; GRANT SELECT ON `genre` TO 'guest'@'localhost'; GRANT SELECT ON `game\_m2m\_genre` TO 'guest'@'localhost'; GRANT SELECT ON `discount` TO 'guest'@'localhost'; GRANT SELECT ON `payment method` TO 'guest'@'localhost'; GRANT SELECT ON 'user' TO 'guest'@'localhost'; GRANT SELECT ON `user\_status` TO 'guest'@'localhost';

GRANT SELECT ON `statistic` TO 'guest'@'localhost';

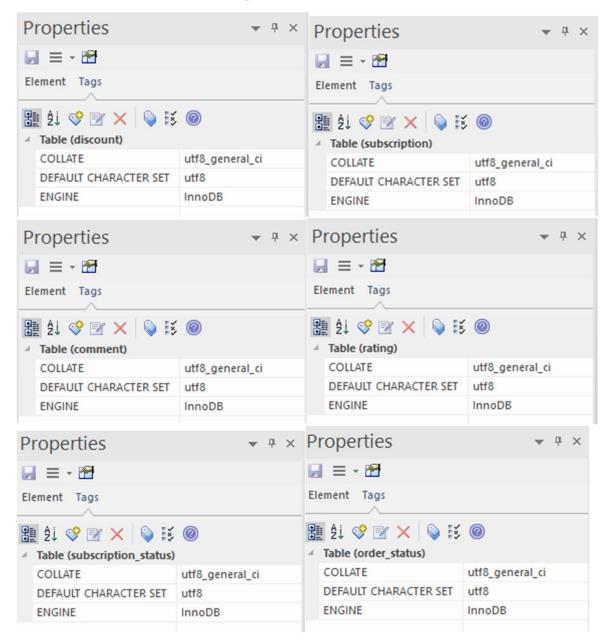
#### 2) Кодировки:

Для всех отношений на диаграмме были добавлены тэги DEFAULT CHARACTER SET и COLLATE:



### 3) Метод доступа:

Для всех отношений на диаграмме был добавлен тэг ENGINE:



### 4) Индексы:

IDX game title – название игры у отношения game

IDX\_order\_user – id пользователя у отношения order

IDX\_subscription\_user – id пользователя у отношения subscription

UNQ\_user\_email – email пользователя у отношения user