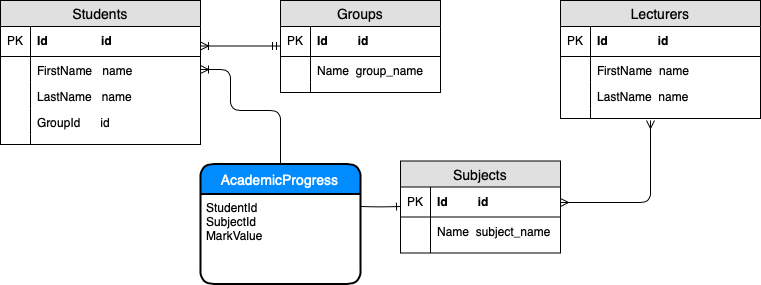
Тельнов Сергей, M3435

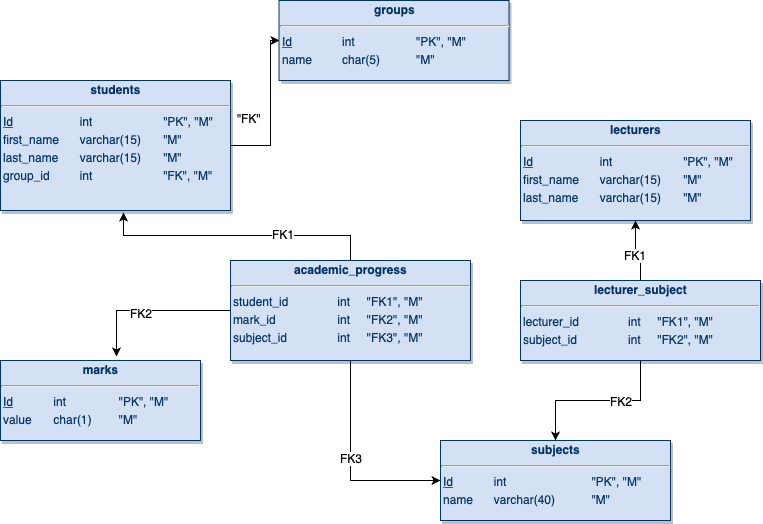
Домашнее задание по курсу «Введение в систему баз данных»

СУБД - psql (PostgreSQL) 11.5

ERD



PDM



university.sql

|  |
| --- |
| */\* Создание базы данных\*/*  **create** **database** UNIVERSITY;  */\* Смена базы данных \*/*  \**c** university;  */\* Создание таблиц \*/*  **create** **table** groups (  id int **PRIMARY** **KEY**,  name char(5) **NOT** **NULL**  );  **create** **table** students (  id int **PRIMARY** **KEY**,  first\_name varchar(15) **NOT** **NULL**,  last\_name varchar(15) **NOT** **NULL**,  group\_id int **REFERENCES** groups (id)  );  **create** **table** lecturers (  id int **PRIMARY** **KEY**,  first\_name varchar(15) **NOT** **NULL**,  last\_name varchar(15) **NOT** **NULL**  );  **create** **table** subjects (  id int **PRIMARY** **KEY**,  name varchar(40) **NOT** **NULL**  );  **create** **table** lecturers\_subjects (  lecturer\_id int **REFERENCES** lecturers (id),  subject\_id int **REFERENCES** subjects (id),  **PRIMARY** **KEY** (lecturer\_id, subject\_id)  );  **create** **table** marks (  id int **PRIMARY** **KEY**,  value char(1) **NOT** **NULL**  );  **create** **table** academic\_progress (  student\_id int **REFERENCES** students (id),  subject\_id int **REFERENCES** subjects (id),  mark\_id int **REFERENCES** marks (id),  **PRIMARY** **KEY** (student\_id, subject\_id, mark\_id)  ); |

test\_values.sql

|  |
| --- |
| */\* Смена базы данных \*/*  \**c** university;  */\* Добавим группы \*/*  **insert** **into** groups  (id, name)  **values**  (1, 'M3435'),  (2, 'M3437'),  (3, 'M3439'),  (4, 'M4139');  */\* Попробуем обмануть группы \*/*  **update** groups  **set** name = **null**  **where** id = 1;  */\* Добавим оценки \*/*  **insert** **into** marks  (id, value)  **values**  (1, 'A'),  (2, 'B'),  (3, 'C'),  (4, 'D'),  (5, 'E'),  (6, 'F');  */\* Добавим преподавателей \*/*  **insert** **into** lecturers  (id, first\_name, last\_name)  **values**  (1, 'Andrew', 'Stankevich'),  (2, 'George', 'Korneev'),  (3, 'Pavel', 'Mavrin');  */\* Добавим предметы \*/*  **insert** **into** subjects  (id, name)  **values**  (1, 'Algorithms and data structures'),  (2, 'Java technology');  */\* Добавим к предметам преподавателей \*/*  **insert** **into** lecturers\_subjects  (lecturer\_id, subject\_id)  **values**  (1, 1),  (3, 1),  (2, 2);  */\* Добавим студентов \*/*  **insert** **into** students  (id, first\_name, last\_name, group\_id)  **values**  (1, 'Michael', 'Putilin', 3),  (2, 'Eugene', 'Feder', 3),  (3, 'Nina', 'Zhevtyak', 2),  (4, 'Sergey', 'Telnov', 1); |