SQL\_DDL  
**Первая часть.**

Таблица **employees**

1. **Создать таблицу employees  
   - id. serial,  primary key,  
   - employee\_name. Varchar(50), not null**

**CREATE** **table** employees (

id **INT** **primary** **key** **AUTO\_INCREMENT**,

employee\_name **VARCHAR**(50) **NOT** **NULL**

);

1. **Наполнить таблицу employee 70 строками.**

**INSERT** **INTO** employees (employee\_name)

**VALUES** ('Daniel Tonini'),('Philip Cramer'),('Manuel Pereira'),('Howard Snyder'),('André Fonseca'),('José Pedro Freyre'),('Eduardo Saavedra'),('Janine Labrune'),('Ann Devon'),('Sven Ottlieb'),('Elizabeth Lincoln')…;

Таблица **salary**

**3.Создать таблицу salary  
- id. Serial  primary key,  
- monthly\_salary. Int, not null**

**CREATE** **TABLE** salary (

id **INT** **PRIMARY** **KEY** **AUTO\_INCREMENT**,

monthly\_salary **INT** **NOT** **NULL**

);

4.Наполнить таблицу salary 15 строками:

**INSERT** **INTO** salary (monthly\_salary)

**VALUES** (1000),(1100),(1200),(1300),(1400)....;

Таблица **employee\_salary**

**4.Создать таблицу employee\_salary  
- id. Serial  primary key,  
- employee\_id. Int, not null, unique**

**- salary\_id. Int, not null**

**CREATE** **TABLE** employee\_salary (

id **INT** **PRIMARY** **KEY** **AUTO\_INCREMENT**,

employee\_id **INT** **NOT** **NULL** **UNIQUE**,

salary\_id **INT** **NOT** **NULL**

);

**5.Наполнить таблицу employee\_salary 40 строками:  
- в 10 строк из 40 вставить несуществующие employee\_id**

**INSERT** **INTO** employee\_salary( employee\_id, salary\_id )

**VALUES** (20,15),(14,16),(15,11);

|  |  |  |
| --- | --- | --- |
| id | employee\_id | salary\_id |
| 1 | 3 | 7 |
| 2 | 1 | 4 |
| 3 | 5 | 9 |
| 4 | 40 | 13 |
| 5 | 23 | 4 |
| 6 | 11 | 2 |
| 7 | 52 | 10 |
| 8 | 15 | 13 |
| 9 | 26 | 4 |
| 10 | 16 | 1 |
| 11 | 33 | 7 |
| ... | ... | ... |

Таблица **roles**

**6.Создать таблицу roles  
- id. Serial  primary key,  
- role\_name. int, not null, unique**

**CREATE** **table** roles (

id **int** **primary** **key** **auto\_increment** ,

role\_name **int** **not** **null** **unique** );

**7.Поменять тип столба role\_name с int на varchar(30)**

**ALTER** **TABLE** roles

**MODIFY** **COLUMN** role\_name **VARCHAR**(30);

**8.Наполнить таблицу roles 20 строками:**

**INSERT** **INTO** roles (role\_name)

**VALUES** ('Junior Python developer'), ('Middle Python developer'), ('Senior Python developer'), ('Junior Java developer'), ('Middle Java developer'), ('Senior Java developer'), ('Junior JavaScript developer'), ('Middle JavaScript developer'), ('Senior JavaScript developer'), ('Junior Manual QA engineer'), ('Middle Manual QA engineer'), ('Senior Manual QA engineer'), ('Project Manager'), ('Designer'), ('HR'), ('CEO'), ('Sales manager'), ('Junior Automation QA engineer'), ('Middle Automation QA engineer'), ('Senior Automation QA engineer');

**SELECT** \* **FROM** roles ;

|  |  |
| --- | --- |
| id | role\_name |
| 1 | Junior Python developer |
| 2 | Middle Python developer |
| 3 | Senior Python developer |
| 4 | Junior Java developer |
| 5 | Middle Java developer |
| 6 | Senior Java developer |
| 7 | Junior JavaScript developer |
| 8 | Middle JavaScript developer |
| 9 | Senior JavaScript developer |
| 10 | Junior Manual QA engineer |
| 11 | Middle Manual QA engineer |
| 12 | Senior Manual QA engineer |
| 13 | Project Manager |
| 14 | Designer |
| 15 | HR |
| 16 | CEO |
| 17 | Sales manager |
| 18 | Junior Automation QA engineer |
| 19 | Middle Automation QA engineer |
| 20 | Senior Automation QA engineer |

Таблица **roles\_employee**

**9.Создать таблицу roles\_employee  
- id. Serial  primary key,  
- employee\_id. Int, not null, unique (внешний ключ для таблицы employees, поле id)**

**- role\_id. Int, not null (внешний ключ для таблицы roles, поле id)**

**CREATE** **table** roles\_employee (

id **int** **primary** **key** **auto\_increment**,

employee\_id **int** **not** **null** **unique**,

role\_id **int** **not** **null**,

**foreign** **key** (employee\_id)

**references** employees (id),

**foreign** **key** (role\_id )

**references** roles (id)

);

**10.Наполнить таблицу roles\_employee 40 строками:**

**INSERT** **INTO** roles\_employee(employee\_id,role\_id)

**VALUES** (57,2)…..;

|  |  |  |
| --- | --- | --- |
| id | employee\_id | role\_id |
| 1 | 7 | 2 |
| 2 | 20 | 4 |
| 3 | 3 | 9 |
| 4 | 5 | 13 |
| 5 | 23 | 4 |
| 6 | 11 | 2 |
| 7 | 10 | 9 |
| 8 | 22 | 13 |
| 9 | 21 | 3 |
| 10 | 34 | 4 |
| 11 | 6 | 7 |
| ... | ... | ... |