1.Table “Children” contains data about children in kindergarten, Last name, First name, date of birth, possible to additional education, health specials.

It is a central table practically like a “star” scheme

|  |  |  |  |
| --- | --- | --- | --- |
| Table Name | Field name | Field description | Data Type |
| **Children** | idChildren | Every Child Unique Id, PK | INT |
| IdParent | Child's parent ID, FK | INT |
| LastName | Child's last name | Varchar(15) |
| FirstName | Child's first name | Varchar(15) |
| DateOfBirth | Child's date of birth | DATE |
| IdGroup | Child's group ID, FK | INT |
| Id\_Esp | Child's especials, FK | INT |

Table relate with 3 another tables: Group (receive ID of a group number), individual\_especials (receive data about allergies or any serious illness), Parent (Data about child’s or children parent (parents))

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Children** | | | | | | |
| idChildren | IdParent | LastName | FirstName | DateOfBirth | IdGroup | Id\_Esp |
| 1 | 1 | Ivanova | Alena | 05.06.2016 | 1 | 1 |
| 2 | 1 | Ivnov | Pavel | 05.06.2018 | 2 | 100 |
| 3 | 2 | Petrov | Ivan | 06.06.2016 | 1 | 100 |

2.Table “Parent” contains data about children parent or parents (one or both). It’s Last name, First name and contact phone

|  |  |  |  |
| --- | --- | --- | --- |
| Table Name | Field name | Field description | Data Type |
| **Parent** | IdParent | Parent's ID, PK | INT |
| Lname | Parent's last name | Varchar(15) |
| Fname | Parent's first name | Varchar(15) |
| PhoneNumber | Parent's phone naumber | Varchar(15) |

It has connection with table Children on IdParent.

|  |  |  |  |
| --- | --- | --- | --- |
| **Parent** | | | |
| IdParent | Lname | Fname | PhoneNumber |
| 1 | Ivanova | Svetlana | 293214567 |
| 2 | Petrov | Michail | 297896541 |

3. This table show data about groups in kindergarten. In one group there are children of similar age. Also show a room number, where this group is.

|  |  |  |  |
| --- | --- | --- | --- |
| Table Name | Field name | Field description | Data Type |
| **Group** | IdGroup | Group ID, PK | INT |
| GrRoom | Group room | Varchar(15) |
| idEmployee | Current group teacher, FK | INT |

Table receive data from Employees table. It is a teacher’s ID for this group. ID Group as a FK connected with a “Children” and present information about group for every child.

|  |  |  |
| --- | --- | --- |
| **Group** | | |
| IdGroup | GrRoom | idEmployee |
| 1 | 122 | 2 |
| 2 | 125 | 3 |

4. Table shows names, position and date of birth or every employee. Some of them work with children directly.

|  |  |  |  |
| --- | --- | --- | --- |
| Table Name | Field name | Field description | Data Type |
| **Employees** | idEmployee | Employee ID, PK | INT |
| LNameE | Employee last name | Varchar(15) |
| FNameE | Employee first name | Varchar(15) |
| IdPosition | Employee position, FK | INT |
| BirthDate | Employee birth date | DATE |

Connection to “Position” table as a vocabulary of all positions in the kindergarten.

IdEmployee connected to 3 tables: “Salary”, “EmployeeWorkDays”, “Group”

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Employees** | | | | |
| idEmployee | LNameE | FNameE | IdPosition | BirthDate |
| 1 | Koneva | Ekaterina | 1 | 08.08.1978 |
| 2 | Konopleva | Svetlana | 2 | 07.07.1977 |
| 3 | Korbut | Maria | 2 | 07.10.1977 |
| 4 | Krevtsov | Petr | 3 | 10.10.1977 |
| 5 | Kozlov | Yaroslav | 4 | 06.06.1976 |
| 6 | Svetlova | Anna | 5 | 05.05.1975 |

5. Table shows payment for every child every month. It depend on days in kindergarten and additional education.

|  |  |  |  |
| --- | --- | --- | --- |
| Table Name | Field name | Field description | Data Type |
| **Bills** | IdBill | Bill ID, PK | INT |
| idChildren | Every Child Unique Id, FK | INT |
| Date | Bill month | DATE |
| VisitDays | How many days child visit a kindergarten | INT |
| IdADD\_Ed | Additional education ID, FK | DATE |
| Amount\_payable | Sum in USD for every child per month | DECIMAL |

Connect to “Children”,” ADD\_Education”

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Bills** | | | | | |
| IdBill | idChildren | Date | VisitDays | IdADD\_Ed | Amount\_payable |
| 1 | 1 | February 2021 | 22 | 0 | 525,5 |
| 2 | 2 | February 2021 | 22 | 4 | 611,25 |
| 3 | 3 | February 2021 | 22 | 0 | 525,5 |
| 4 | 1 | March 2021 | 22 | 4 | 625 |
| 5 | 2 | March 2021 | 22 | 4 | 625 |
| 6 | 3 | March 2021 | 22 | 4 | 625 |

6. This table control working hours or every employee.

|  |  |  |  |
| --- | --- | --- | --- |
| Table Name | Field name | Field description | Data Type |
| **EmployeeWorkDays** | Date | Current working day | DATE |
| idEmployee | Employee ID, FK | INT |
| Working\_Hours | Working hours per day for every employee | INT |

Connect to “Employees” table, receive Employee ID

|  |  |  |
| --- | --- | --- |
| **EmployeeWorkDays** | | |
| Date | idEmployee | Working\_Hours |
| 12.04.2021 | 1 | 8 |
| 12.04.2021 | 2 | 8 |
| 12.04.2021 | 3 | 8 |
| 12.04.2021 | 4 | 8 |
| 12.04.2021 | 5 | 6 |
| 12.04.2021 | 6 | 2 |
| 13.04.2021 | 1 | 8 |
| 13.04.2021 | 2 | 8 |
| 13.04.2021 | 3 | 8 |
| 13.04.2021 | 4 | 8 |
| 13.04.2021 | 5 | 8 |
| 13.04.2021 | 6 | 8 |

7. This a vocabulary of illnesses or other specials

|  |  |  |  |
| --- | --- | --- | --- |
| Table Name | Field name | Field description | Data Type |
| **individual\_especials** | IDEsp | specials ID, PK | INT |
| Esp\_Name | Child's specials | Varchar(45) |

Connection to “Children” table provide data about child's specials

|  |  |
| --- | --- |
| individual\_especials | |
| IDEsp | Esp\_Name |
| 1 | citrus allergic |
| 2 | milk allergic |
| 3 | flowering allergic |
| 4 | hyperactivity |
| 5 | Down's Syndrome |
| 100 | None |

8. Vocabulary contain list of positions kindergarten employees

|  |  |  |  |
| --- | --- | --- | --- |
| Table Name | Field name | Field description | Data Type |
| **EmplyeePosition** | idPosition | Employee position ID, PK | INT |
| Position\_Name | Position Name | Varchar(45) |
| Salary | Salary for every position | DECIMAL |

Connection with table “Employees”

|  |  |  |
| --- | --- | --- |
| **EmplyeePosition** | | |
| idPosition | Position\_Name | Salary |
| 1 | General Manager | 2000,00 |
| 2 | Teacher | 1700,00 |
| 3 | Security | 1700,00 |
| 4 | Cleaner | 1300,00 |
| 5 | Teacher Assistant | 1500,00 |

9

|  |  |  |  |
| --- | --- | --- | --- |
| Table Name | Field name | Field description | Data Type |
| **ChildVisitLog** | Date | Current working day | DATE |
| idChildren | Every Child Unique Id, FK | INT |
| Present | Present or Absent child in kindergarten | BOOLEAN |

|  |  |  |
| --- | --- | --- |
| **ChildVisitLog** | | |
| Date | idChildren | Present |
| 12.04.2021 | 1 | 1 |
| 12.04.2021 | 2 | 1 |
| 12.04.2021 | 3 | 1 |
| 13.04.2021 | 1 | 1 |
| 13.04.2021 | 2 | 1 |
| 13.04.2021 | 3 | 0 |

10. Table show all possibilities for additional education, such as music, painting, language courses, etc

|  |  |  |  |
| --- | --- | --- | --- |
| Table Name | Field name | Field description | Data Type |
| **ADD\_Education** | IdADD\_Ed | Additional education ID, PK | INT |
| Add\_Name | Additional education name | Varchar(45) |

Connection with table “BILLS”

|  |  |
| --- | --- |
| **ADD\_Education** | |
| IdADD\_Ed | Add\_Name |
| 1 | Music |
| 2 | Dancing |
| 3 | Painting |
| 4 | English |