Table: producer

|  |  |
| --- | --- |
| **Schema:** | foodchain |
| **Responsible:** | Monitoring and tracking food life cycle |

Table holds information of farmers and producers.

|  |  |  |
| --- | --- | --- |
| **Column** | **Data type** | **Description** |
| producer\_id **(pk)** | int | Primary key for **producer** table. Foreign key to **qr\_codes** , foreign key and column for composite primary key to **producer\_certificates** and **producer\_actions**. |
| name | Varchar(45) | Name of producer or farmer |
| ethereum\_info | Varchar(100) | Ethereum account information of producer |
| url | Varchar(45) | Web url of producer |
| license\_number | Varchar(45) | Unique license number issued to each registered producer by government. |

Table: actions

|  |  |
| --- | --- |
| **Schema:** | foodchain |
| **Responsible:** | Monitoring and tracking food life cycle |

Table contains list of actions that a producer can perform.

|  |  |  |
| --- | --- | --- |
| **Column** | **Data type** | **Description** |
| actions\_id **(pk)** | int | Primary key for **actions** table. foreign key and column for composite primary key to **producer\_actions** and **qr\_code\_actions**. |
| name | Varchar(45) | Name of action that producer can perform. |

Table: producer\_actions

|  |  |
| --- | --- |
| **Schema:** | foodchain |
| **Responsible:** | Monitoring and tracking food life cycle |

This junction Table is used to handle many-to-many relationship between **producer** and **actions.**

|  |  |  |
| --- | --- | --- |
| **Column** | **Data type** | **Description** |
| producer\_id **(pk,fk)** | int | column of composite primary key for **producer\_actions**. |
| action\_id**(pk,fk)** | int | column of composite primary key for **producer\_actions**. |

Table: certificates

|  |  |
| --- | --- |
| **Schema:** | foodchain |
| **Responsible:** | Monitoring and tracking food life cycle |

Table contains List of following licenses: IP, Demeter, ProSpeciRara, Bio that a producer may select.

|  |  |  |
| --- | --- | --- |
| **Column** | **Data type** | **Description** |
| certificate\_id **(pk)** | int | Primary key for **certificates** table. Foreign key and column for composite primary key to **producer\_certificates** and **qr\_code\_certificates**. |
| name | Varchar(45) | Name of certificate that a producer may select |

Table: producers\_certificates

|  |  |
| --- | --- |
| **Schema:** | foodchain |
| **Responsible:** | Monitoring and tracking food life cycle |

This junction Table is used to handle many-to-many relationship between **producer** and **certificates.**

|  |  |  |
| --- | --- | --- |
| **Column** | **Data type** | **Description** |
| producer\_id **(pk,fk)** | int | Column of composite primary key for producers\_certificates. |
| certificate\_id **(pk,fk)** | int | Column of composite primary key for producers\_certificates. |

Table: qr\_codes

|  |  |
| --- | --- |
| **Schema:** | foodchain |
| **Responsible:** | Monitoring and tracking food life cycle |

Table contains information of QR code when it is generated by producer or farmer.

|  |  |  |
| --- | --- | --- |
| **Column** | **Data type** | **Description** |
| qr\_code\_id **(pk)** | Varchar(100) | Primary key for **qr\_codes** table. Foreign key and column for composite primary key to **qr\_code\_actions** and **qr\_code\_certificates** |
| previous\_qr\_code\_id | Varchar(100) | Previous QR code to backtrack all previous information related to product |
| producer\_id **(fk)** | int | For getting information of producer |
| latitude | DECIMAL(10,8) | Producer’s or farmer’s current location latitude through GPS |
| longitude | DECIMAL(11,8) | Producer’s or farmer’s current location longitude through GPS |
| date | DATETIME | Date at which QR code is generated |

Table: qr\_code\_certificates

|  |  |
| --- | --- |
| **Schema:** | foodchain |
| **Responsible:** | Monitoring and tracking food life cycle |

This junction Table is used to handle many-to-many relationship between **qr\_codes** and **certificates.**

|  |  |  |
| --- | --- | --- |
| **Column** | **Data type** | **Description** |
| Qr\_code\_id **(pk,fk)** | int | Column of composite primary key for qr\_code\_certificates. |
| certificate\_id **(pk,fk)** | int | Column of composite primary key for qr\_code\_certificates. |

Table: qr\_code\_actions

|  |  |
| --- | --- |
| **Schema:** | foodchain |
| **Responsible:** | Monitoring and tracking food life cycle |

This junction Table is used to handle many-to-many relationship between **qr\_codes** and **actions.**

|  |  |  |
| --- | --- | --- |
| **Column** | **Data type** | **Description** |
| Qr\_code\_id **(pk,fk)** | int | Column of composite primary key for qr\_code\_actions. |
| action\_id **(pk,fk)** | int | Column of composite primary key for qr\_code\_actions. |