***Relational Database Schema***

PATIENT (patient-id, patient\_lname, patient\_fname, patient\_bday, patient\_address, patient\_gender, parent\_name)

APPOINTMENT (appointment\_id, appointment\_dates, patient\_id)

FK patient\_id REFERENCES PATIENT Nulls Not Allowed

Delete Cascade

Service\_id REFERENCES SERVICES Nulls Not Allowed

Delete Restrict, Update Cascade

SERVICES (service\_id, service\_name)

SALES (sales\_id, sales\_date, payment\_id, payment\_id)

FK payment\_id REFERENCES PAYMENTS Nulls Not Allowed

Delete Restrict, Update Cascade

PAYMENTS (payment\_id, payment\_date, amount, discount, patient\_id, service\_id, appointment\_id, order\_id, vaccine\_id, supplier\_id, delivery\_id)

FK patient\_id REFERENCES PATIENTS Nulls Allowed

Delete Restrict, Update Cascade

Service\_id REFERENCES SERVICES Nulls Not Allowed

Delete Restrict, Update Cascade

Appointment\_id REFERENCES APPOINTMENTS Nulls Allowed

Delete Restrict, Update Cascade

Order\_id REFERENCES ORDERS Nulls Allowed

Delete Restrict, Update Cascade

Vaccine\_id REFERENCES VACCINES Null Allowed

Delete Restrict, Update Cascade

Supplier\_id REFERENCES SUPPLIERS Nulls Allowed

Delete Restrict, Update Cascade

Delivery\_id REFERENCES DELIVERIES Nulls Allowed

Delete Restrict, Update Cascade

EMPLOYEE (employee\_id, position, employee\_lname, employee\_fname)

ACCOUNTS (account\_id, username, password, registered\_date, employee\_id)

FK employee\_id REFERENCES EMPLOYEES Nulls Not Allowed

Delete Cascade, Update Cascade

VACCINE (vaccine\_id, vaccine\_name, vaccine\_type, expiratione\_date, vaccine\_quantity, vaccine\_description)

DELIVERIES (delivery\_id, delivered\_date, date\_received)

DELIVERY\_TRANSACTION (transaction\_id, vaccine\_id, delivery\_id)

FK vaccine\_id REFERENCES VACCINES Nulls Not Allowed

Delete Restrict, Update Cascade

Delivery\_id REFERENCES DELIVERIES Nulls Not Allowed

Delete Restrict, Update Cascade

RETURNS (return\_id, return\_date, reason, amount\_returned, replacement\_date, status)

RETURN\_TRANSACTION (transaction\_id, vaccine\_id, return\_id)

FK vaccine\_id REFERENCES VACCINES Nulls Not Allowed

Delete Cascade, Update Cascade

Return\_id REFERENCES RETURNS Nulls Not Allowed

Delete Restrict, Update Cascade

MEDICAL\_RECORD (patient\_id, medicalrecord\_id, medicalrecord\_type, test\_result, prescription)

PATIENT\_RECORD (patient\_id, patientrecord\_id, blood\_type, birth\_weight, birth\_lenght, head\_cire, chest\_cire, abdominal\_cire)

VACCINE\_DOSAGE (dosage\_id, dosage\_amount, patient\_id)

FK patient\_id REFERENCES PATIENT Nulls Not Allowed

Delete Cascade, Update Cascade