Schema Documentation for Hospital Management Database

1. **Patients**
   - **Attributes:** Patient_ID, name, phone_num, address, nurse_id, medication_name, medication_amount, room_number, num_nights
   - **Primary Key:** Patient_ID
   - **Foreign Keys:** nurse_id references Nurses(nurse_id), room_number references Rooms(room_number)
   - **Purpose:** Stores information about each patient, including their assigned nurse, medication details, and room information.

---

2. **Health_records**
   - **Attributes:** health_id, disease, status, date, description, patient_id
   - **Primary Key:** health_id
   - **Foreign Key:** patient_id references Patients(patient_id)
   - **Purpose:** Records detailed health information and status updates for each patient.

---

3. **Invoices**
   - **Attributes:** invoice_id, instruction_fee, room_fee, patient_id
   - **Primary Key:** invoice_id
   - **Foreign Key:** patient_id references Patients(patient_id)
   - **Purpose:** Manages billing for medical instructions and room charges for patients.

---

4. **Payments**
   - **Attributes:** payment_id, amount, date, patient_id
   - **Primary Key:** payment_id
   - **Foreign Key:** patient_id references Patients(patient_id)
   - **Purpose:** Tracks payments made by or on behalf of patients.

---

5. **Physicians**
   - **Attributes:** physician_id, name, phone_num, field, address, certification_num
   - **Primary Key:** physician_id
   - **Purpose:** Details about physicians including their specialization and contact information.

---

6. **Instructions**
   - **Attributes:** Instruction_code, description, fee
   - **Primary Key:** Instruction_code
   - **Purpose:** Catalog of medical procedures and instructions available at the hospital, along with associated fees.

---

7. **Nurses**
   - **Attributes:** nurse_id, address, name, phone_num, certification_num
   - **Primary Key:** nurse_id
   - **Purpose:** Information about nurses including certification details.

8. **Rooms**
   - **Attributes:** room_number, capacity, fee
   - **Primary Key:** room_number
   - **Purpose:** Details of patient rooms including capacity and associated fees.

9. **Invoice_payments**
   - **Attributes:** patient_id, invoice_id, payment_id
   - **Primary Key:** patient_id, invoice_id, payment_id
   - **Foreign Keys:** patient_id references Patients(patient_id), invoice_id references Invoices(invoice_id), payment_id references Payments(payment_id)
   - **Purpose:** Links invoices and payments to patients, ensuring all billing and payment records are correlated.

10. **Monitored**
    - **Attributes:** patient_id, physician_id, duration
    - **Primary Key:** patient_id, physician_id
    - **Foreign Keys:** patient_id references Patients(patient_id), physician_id references Physicians(physician_id)
    - **Purpose:** Tracks which physicians are monitoring which patients and for how long.

11. **Orders**
    - **Attributes:** patient_id, instruction_code, physician_id, order_date
    - **Primary Key:** patient_id, instruction_code, physician_id
    - **Foreign Keys:** patient_id references Patients(patient_id), instruction_code references Instructions(instruction_code), physician_id references Physicians(physician_id)
    - **Purpose:** Manages medical orders given to patients by physicians, linking them to specific procedures in the Instructions table.

12. **Executed**
    - **Attributes:** instruction_code, nurse_id, date
    - **Primary Key:** instruction_code, nurse_id
    - **Foreign Keys:** instruction_code references Instructions(instruction_code), nurse_id references Nurses(nurse_id)
    - **Purpose:** Records the execution of medical instructions by nurses, specifying when and by whom each instruction was carried out.