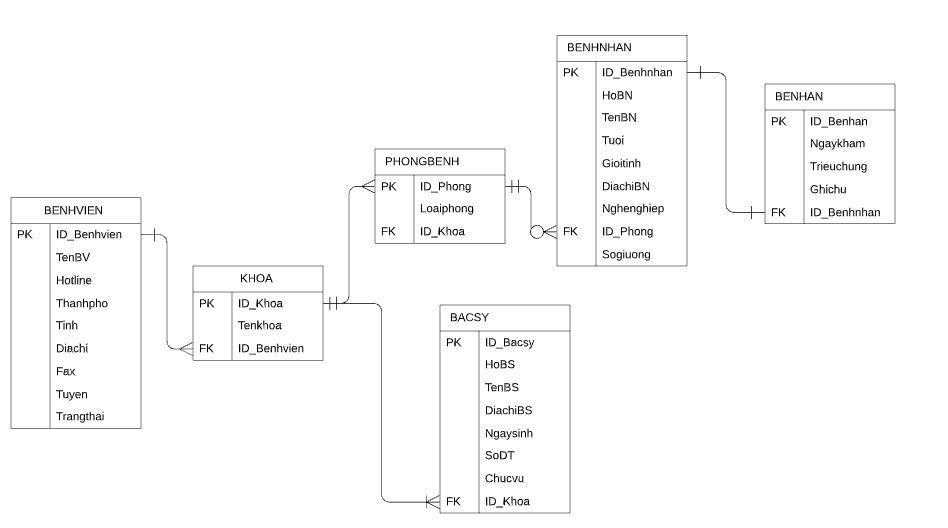
**INF10002 – Database analysis and design**

**HEALTHCARE DATABASE PROJECT**

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In this project, I had build a simple Healthcare database to monitor simply a medical hospital. In this case, I only focus and work on 1 hospital called Bạch Mai Hospital therefore only 1 data had been inserted into BENHVIEN table.



1. **Design ERD**

|  |  |  |
| --- | --- | --- |
| Entity | Attribute | Primary Key |
| BENHVIEN | ID\_Benhvien, TenBV, Hotline, Thanhpho, Tinh, Diachi, Fax, Tuyen, Trangthai | ID\_Benhvien |
| KHOA | ID\_Khoa, Tenkhoa | ID\_Khoa |
| PHONGBENH | ID\_Phong, Loaiphong | ID\_Phong |
| BACSY | ID\_Bacsy, HoBS, TenBS, DiachiBS, Ngaysinh, SoDT, Chucvu | ID\_Bacsy |
| BENHNHAN | ID\_Benhnhan, HoBN, TenBN, Tuoi, Gioitinh, DiachiBN, Nghenghiep, Sogiuong | ID\_Benhnhan |
| BENHAN | ID\_Benhan, Ngaykham, Trieuchung, Ghichu | ID\_Benhan |

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1. **Relationship**

A Hospital (Benhvien) can have many Faculties (Khoa)

1 Faculty can have many doctors (Bac sy) working

1 Faculty also have many hospital rooms (Phòng bệnh)

1 hospital room can have 0 or many patients on that

1 Patient from a faculty can have one and only 1 medical record (Bệnh án)

1. **Relational schema**

BENHVIEN (ID\_Benhvien, TenBV, Hotline, Thanhpho, Tinh, Diachi, Fax, Tuyen, Trangthai)

PK: ID\_Benhvien

KHOA (ID\_Khoa, Tenkhoa)

PK: ID\_Khoa

FK: ID\_Benhvien references BENHVIEN

PHONGBENH (ID\_Phong, Loaiphong)

PK: ID\_Phong

FK: ID\_Khoa references KHOA

BACSY (ID\_Bacsy, HoBS, TenBS, DiachiBS, Ngaysinh, SoDT, Chucvu)

PK: ID\_Bacsy

FK: ID\_Khoa references KHOA

BENHNHAN (ID\_Benhnhan, HoBN, TenBN, Tuoi, Gioitinh, DiachiBN, Nghenghiep, Sogiuong)

PK: ID\_Benhnhan

FK: ID\_Phong references PHONGBENH

BENHAN (ID\_Benhan, Ngaykham, Trieuchung, Ghichu)

PK: ID\_Benhan

FK: ID\_Benhnhan references BENHNHAN

1. **Raw data design**















1. Web function

* A connection between SQL Server and Visual Studio has been created as a form on the website. Data get from SQL statements will be displayed on this website to enable users view the information.
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