# Python With Mysql

```
👶 books.py M 🗙
de books.py > 分 get_db
       from fastapi import FastAPI, Depends, HTTPException
       from sqlalchemy.orm import Session
       from database import SessionLocal
       from models import Book
       from schemas import BookCreate, BookUpdate, BookResponse
       from typing import List
       app = FastAPI()
       def get db():
           db = SessionLocal()
           try:
               yield db
           finally:
               db.close()
       @app.get("/books", response_model=List[BookResponse])
       def get_books(db: Session = Depends(get_db)):
          return db.query(Book).all()
       @app.get("/books/{book id}", response model=BookResponse)
       def get_book(book_id: int, db: Session = Depends(get_db)):
          book = db.query(Book).filter(Book.id == book id).first()
           if not book:
               raise HTTPException(status_code=404, detail="Book not found")
```

### 1. Create main file

Create main file for Create CRUD operation to Connect it database

```
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 Help
     🕏 schemas.py U 🗙
      🕏 schemas.py > ...
            from pydantic import BaseModel
            class BookBase(BaseModel):
                 title: str
                 author: str
                 price: str
            class BookCreate(BookBase):
                 pass
U
             class BookUpdate(BookBase):
                 pass
       13
             class BookResponse(BookBase):
                 id: int
                 class Config:
                     orm_mode = True
```

### 2. Create the schemas

Create schemas for store table

```
👶 create_tables.py U 🗙
create_tables.py
       from database import Base, engine
       from models import Book
       print("Creating tables...")
       Base.metadata.create_all(bind=engine)
       print("Tables created successfully!")
```

## 3. Create table

```
ン backendAPI
Help
   🥏 models.py U 🗙
    e models.py > ...
          from sqlalchemy import Column, Integer, String
          from database import Base
           class Book(Base):
               __tablename__ = "books"
              id = Column(Integer, primary_key=True, index=True)
              title = Column(String(255), nullable=False)
               author = Column(String(255), nullable=False)
              price = Column(String(20), nullable=False)
     11
```

### 4. create model

### 5. create file database for connect database

```
🝦 database.py U 🗙
🥏 database.py > ...
       from sqlalchemy import create_engine
       from sqlalchemy.ext.declarative import declarative_base
       from sqlalchemy.orm import sessionmaker
       # Replace 'root' and '' with your MySQL username and password
       DATABASE_URL = "mysql+mysqlconnector://root:@127.0.0.1/fastapi_db"
       engine = create engine(DATABASE URL)
       SessionLocal = sessionmaker(autocommit=False, autoflush=False, bind=engine)
       Base = declarative_base()
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```

# THANK YOU

