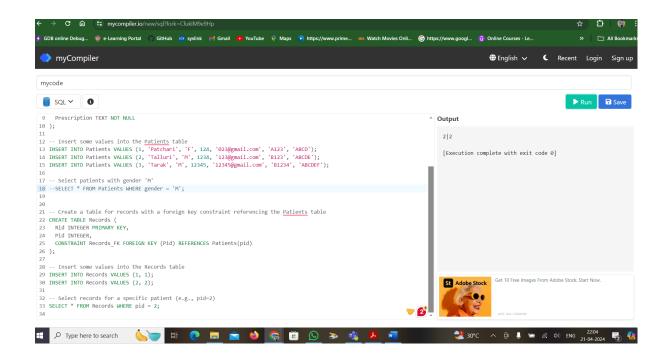


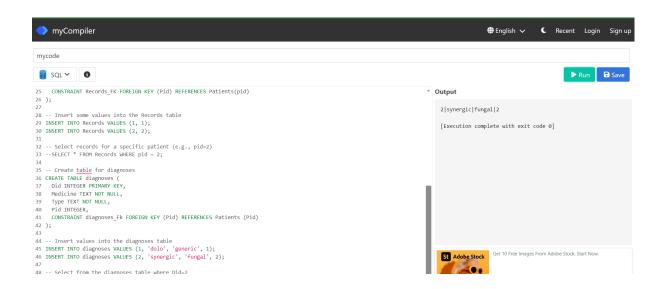
-- Create a table for patients
CREATE TABLE Patients (
pid INTEGER PRIMARY KEY,
name TEXT NOT NULL,
gender TEXT NOT NULL,
Phno INTEGER NOT NULL,
Email VARCHAR NOT NULL,
AppointmentID VARCHAR NOT NULL,
Prescription TEXT NOT NULL
);

-- Insert some values into the Patients table INSERT INTO Patients VALUES (1, 'Patchari', 'F', 124, '023@gmail.com', 'A123', 'ABCD'); INSERT INTO Patients VALUES (2, 'Talluri', 'M', 1234, '123@gmail.com', 'B123', 'ABCDE'); INSERT INTO Patients VALUES (3, 'Tarak', 'M', 12345, '12345@gmail.com', 'B1234', 'ABCDEF');

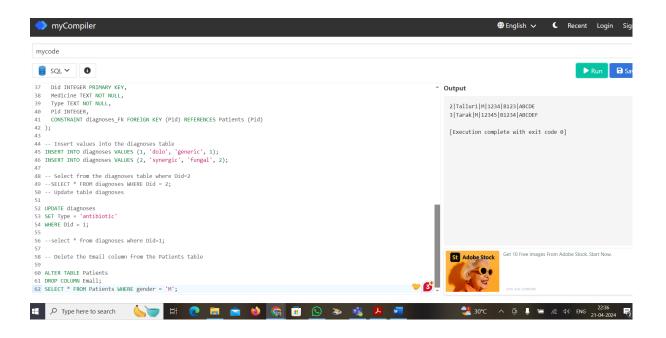
- -- Select patients with gender 'M'
- --SELECT * FROM Patients WHERE gender = 'M';
- -- Create a table for records with a foreign key constraint referencing the Patients table CREATE TABLE Records (Rid INTEGER PRIMARY KEY, Pid INTEGER, CONSTRAINT Records_FK FOREIGN KEY (Pid) REFERENCES Patients(pid));
- -- Insert some values into the Records table INSERT INTO Records VALUES (1, 1);

```
INSERT INTO Records VALUES (2, 2);
-- Select records for a specific patient (e.g., pid=2)
--SELECT * FROM Records WHERE pid = 2;
-- Create table for diagnoses
CREATE TABLE diagnoses (
 Did INTEGER PRIMARY KEY,
 Medicine TEXT NOT NULL,
 Type TEXT NOT NULL,
 Pid INTEGER,
 CONSTRAINT diagnoses_Fk FOREIGN KEY (Pid) REFERENCES Patients (Pid)
);
-- Insert values into the diagnoses table
INSERT INTO diagnoses VALUES (1, 'dolo', 'generic', 1);
INSERT INTO diagnoses VALUES (2, 'synergic', 'fungal', 2);
INSERT INTO diagnoses VALUES (3, 'typhoid', 'chicken', 3);
-- Select from the diagnoses table where Did=2
--SELECT * FROM diagnoses WHERE Did = 2;
-- Update table diagnoses
UPDATE diagnoses
SET Type = 'antibiotic'
WHERE Did = 1;
--select * from diagnoses where Did=1;
-- Delete the Email column from the Patients table
ALTER TABLE Patients
DROP COLUMN Email:
--SELECT * FROM Patients WHERE gender = 'M';
--SELECT patients.pid, diagnoses.Did, patients.name, diagnoses.Medicine
--FROM patients
--INNER JOIN diagnoses
--ON patients.Pid = diagnoses.Pid;
CREATE INDEX idx_patients_gender ON Patients (gender);
```

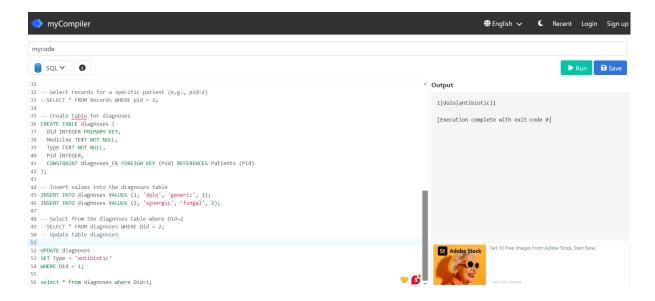




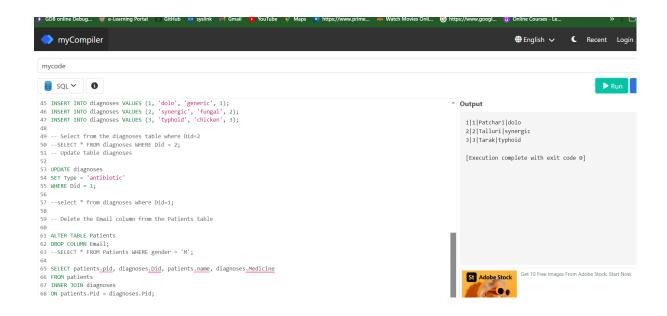
Delete



Update



Complex



Q5

Patients Table:Since the primary key column (pid) is already indexed by default due to its primary key constraint, there's no need to create an additional index for it. However, if you frequently query based on the gender column, you might consider indexing it.

CREATE INDEX idx_patients_gender ON Patients (gender);

Records Table:Since the Pid column in the Records table is a foreign key referencing the Pid column in the Patients table, it's often automatically indexed for referential integrity purposes. However, if you frequently join or filter based on the Pid column, you may create an index explicitly.

CREATE INDEX idx_records_pid ON Records (Pid);

Diagnoses Table: Similar to the Records table, the Pid column in the Diagnoses table is a foreign key referencing the Pid column in the Patients table. Therefore, it might already be indexed for referential integrity. If you often filter or join based on Pid, consider creating an index.

CREATE INDEX idx_diagnoses_pid ON diagnoses (Pid);

1.	Other Indices:Depending on your query patterns and performance requirements, you may need to create additional indices for other columns that are frequently accessed or involved in join and filtering conditions.