

Integration Document:

LINK TO GAMMA CLICK HERE

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Problem Definition:

- Analyze the survival rate of screened and unscreened patients
- Compare the effectiveness of screening in improving survival rates

Database Schema:

```
TABLE CancerTypes (
CancerTypeID INT PRIMARY KEY,
CancerType VARCHAR(50),
Description TEXT
);

TABLE Treatments (
TreatmentID INT PRIMARY KEY,
```

Treatment VARCHAR(50)

```
);
TABLE Patients (
 ID INT PRIMARY KEY,
 Age INT,
 CancerTypeID INT,
 Stage INT,
 DiagnosisYear INT,
 Screening VARCHAR(3),
 TreatmentID INT,
 Outcome VARCHAR(50),
 FOREIGN KEY (CancerTypeID) REFERENCES CancerTypes(CancerTypeID),
 FOREIGN KEY (TreatmentID) REFERENCES Treatments(TreatmentID)
);
Data Flow:
1. Patients data is collected and stored in the Patients table
2. Survival rates are calculated for Screened and Unscreened patients
Integration Steps:
1. Design and create the database schema
2. Populate the Patients table with data
```

3. Write SQL queries to calculate survival rates for each group

4. Export data from the Patients table to Excel for visualization

5. Analyze and draw conclusions from the visualized data
Interface Definitions:
- SQL Server Management Studio (SSMS) for database management
- Excel for data visualization
Testing and Validation:
- Verifying data accuracy in the Patients table

- Validating survival rate calculations

- Confirming data export to Excel is successful