

# INFO20003 Database Systems

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## 1 Data and Information

### 1.1 Data

Data is raw facts and figures.

### 1.2 Information

Information is data presented in a context that delivers valuable insights.

### 1.3 Databases

A database is a structured collection of data. Advantages of databases include

- Data program independence
- Minimum redundancy (no duplicate data)
- More efficient data sharing
- More efficient data maintenance

### 1.4 SQL Create Table

```
CREATE TABLE Song (  
    SongID INT,  
    AlbumID INT NOT NULL,  
    SongName VARCHAR(40) NOT NULL,  
    PRIMARY KEY (SongID)  
)
```

```
CREATE TABLE Album (  
    AlbumID INT,  
    AlbumName VARCHAR(40) NOT NULL,  
    ReleaseDate DATETIME NOT NULL,  
    PRIMARY KEY (AlbumID)  
)
```