**DBMS Project – Airplane Crash**

**Module 2**

**Requirements:**

1. Populate your tables with representative sample data. Ensure that at least one main table has a minimum of 25 records. This can be a customer/employer/product/user or similar table that works well with your data. **Any relational DBMS such as Access, MS SQL, SQL Server or Oracle DB can be used as the platform for creating your database.**
2. Create minimum of 3 SQL Queries or Statements to include with your submission that would demonstrate how your database functions. Your SQL statements should include a query to retrieve data, an insert statement to modify existing data, and a delete or update statement to append or remove data from at least one table.
3. Normalize your data as needed to at least Third Normal Form or BCNF.

**Implementation:**

* **Create Table Queries**
  + **PASSENGER Table**

**A screenshot of a computer

Description automatically generated**

* + **COMPANION Table**

**A screen shot of a computer

Description automatically generated**

* + **TICKET Table**

**A screenshot of a cell phone screen with text

Description automatically generated**

* + **SEAT Table**

**A black and red text

Description automatically generated**

* **According to the requirement, I have populated the 30 records in each table.**
* **PASSENGER Table**

A screenshot of a computer

Description automatically generated

* **COMPANION Table**

A screenshot of a computer

Description automatically generated

* **TICKET Table**

A screenshot of a video game

Description automatically generated

* **SEAT Table**

A screenshot of a cell phone

Description automatically generated

* **SQL Queries:** We can perform following SQL queries according to the requirements.

**Q1.** How many passengers have been survived from 'Business' Class?

A screenshot of a cell phone screen with text

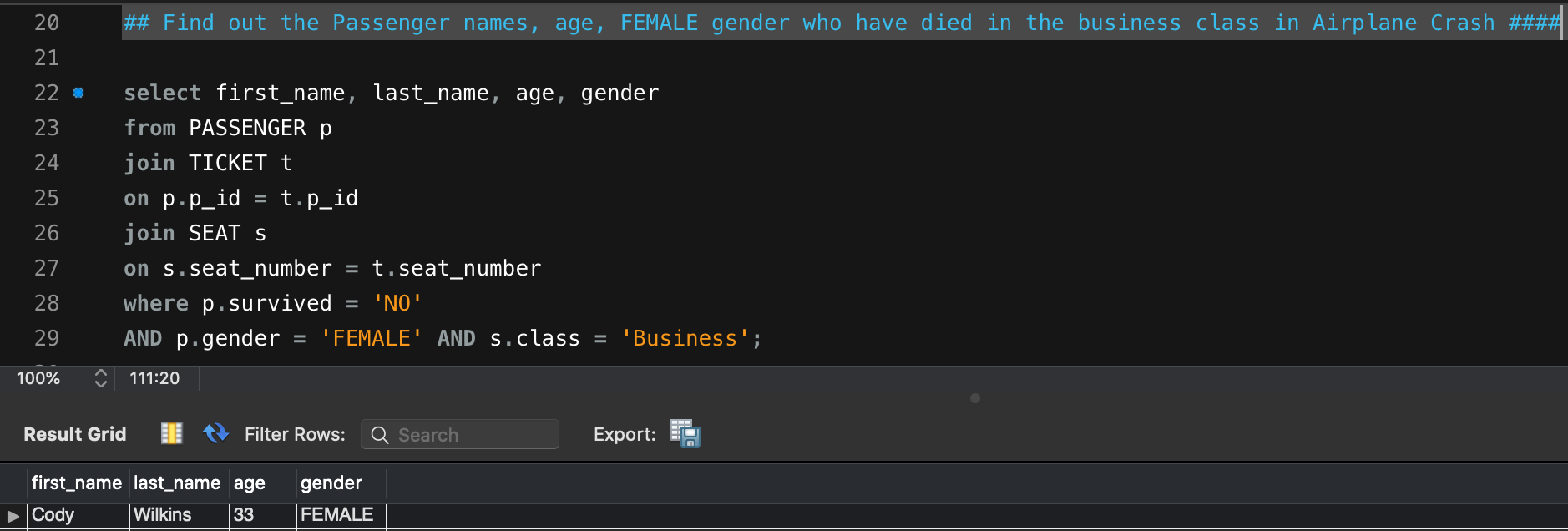
Description automatically generated

**Q2.** How many passengers have been died from 'Economy' Class?

A screenshot of a computer screen

Description automatically generated

Q3. Find out the Passenger names, age, FEMALE gender who have died in the business class, in Airplane Crash.



Q4. How many passengers have been survived who were having children with them?

A screenshot of a computer screen

Description automatically generated

Q5. How many passengers have been died who were having children with them in Business class?

A screenshot of a cell phone screen with text

Description automatically generated

Q6. Insert a new companion\_type and special\_seat to COMPANION table for particular Passenger.

A close up of a logo

Description automatically generated

A screen shot of a video game

Description automatically generated

Q7. Update the companion type in Companion table for particular passenger in the airplane crash.

A close up of a logo

Description automatically generated

A screenshot of a cell phone

Description automatically generated

A screenshot of a video game

Description automatically generated

Q8. Make the changes for one PASSENGER in Passenger table who has been confirmed as dead,

but the confirmation got wrong and we want to change it to survived. (Update on Passenger – Survival – NO to YES)

A screenshot of a cell phone

Description automatically generated

A screenshot of a video game

Description automatically generated

Q9. Delete some Passenger records who have survived and age is between 1 to 5.

A close up of a screen

Description automatically generated

* + **Normalization:** We have normalized our database in the **BCNF/3NF** as discussed.