

Database Creation and Simple Query Script Creation

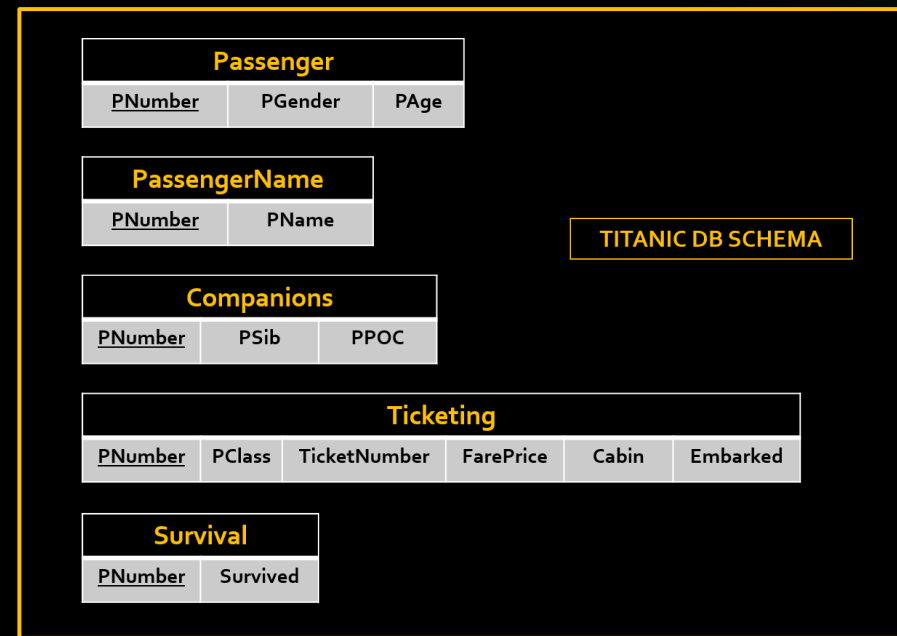
Professor HG Locklear  
hlocklear@pace.edu

# General

2

- ▶ Code a **SINGLE** sql script that creates the database **[Your Name]HW1** based on the schema shown on slide 2/3 **and** contains the code for the queries for each of the questions listed on slide 4.
- ▶ After you have created the database, utilize the data files (one is provided for each table) to populate the tables in the database. **DO NOT INCLUDE THESE FILES IN YOUR SUBMISSION...additionally, DO NOT COPY AND PASTE THE INSERT STATEMENTS INTO YOUR SCRIPT.**

Relations	
Name	Contains
Passenger	Passenger Number, Gender, and Age
PassengerName	Passenger Number and Name
Companions	Passenger Number, Number of Siblings the Passenger has onboard, and the number of Parents and/or Children the Passenger has onboard
Ticketing	The Class of the Passenger's Ticket, the Ticket Number, the Cost of the Ticket, the Passenger's Cabin Number, and the Port where the Passenger embarked on the ship.
Survival	The Passenger Number and whether the Passenger Survived (0 No 1 Yes)



## Required Constraints

- All tables maintain referential integrity with the Passenger table
- All Constraints must be named except for NOT NULL and DEFAULT
- No Attribute may be NULL
- The DEFAULT value for all numeric attributes is 0
- The DEFAULT value for all non-numeric attributes is 'UNK'

# titanic Database Schema

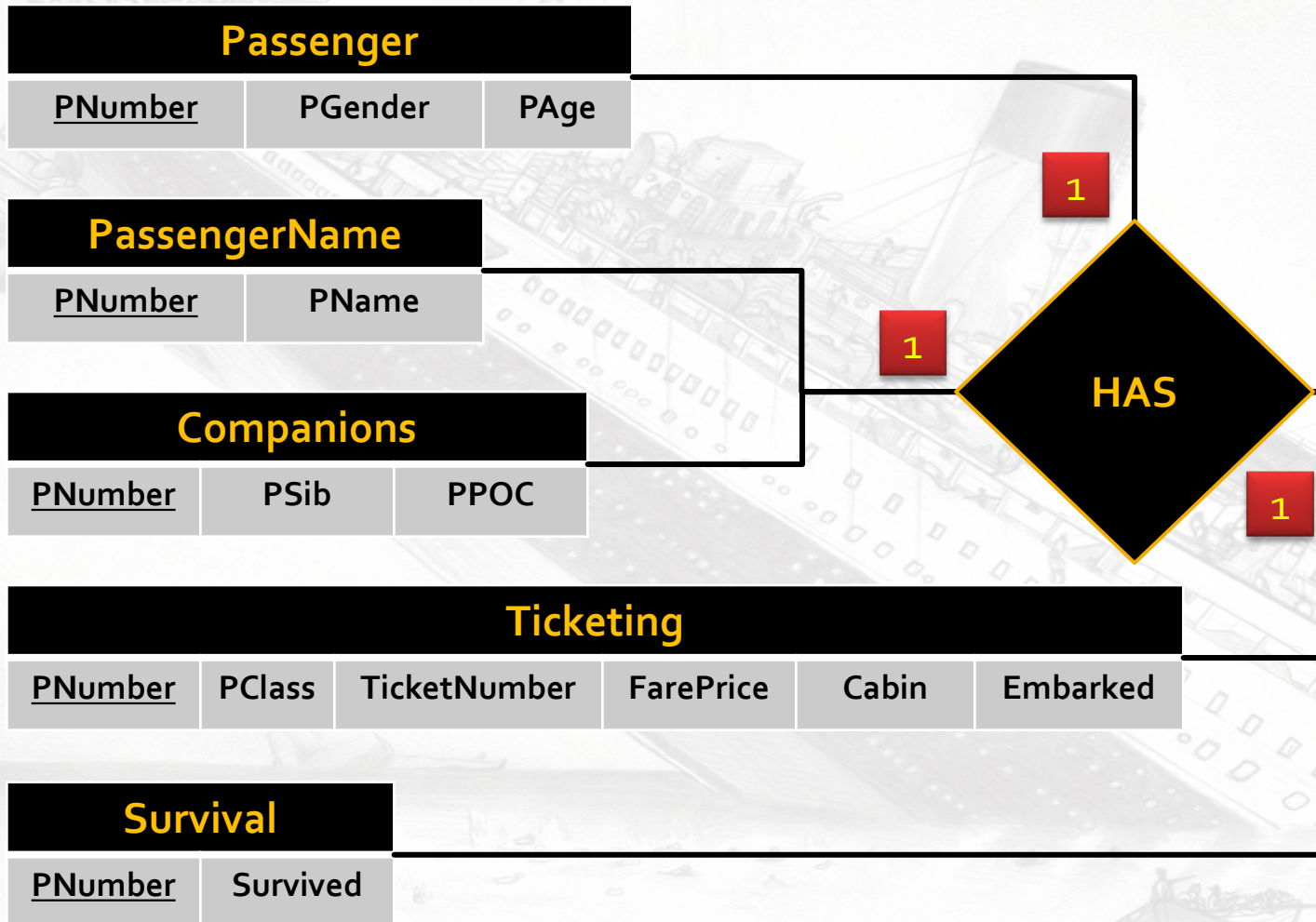


Table	Data File Name
Passenger	Passenger.sql
PassengerName	PassengerName.sql
Companions	Companions.sql
Ticketing	Ticketing.sql
Survival	Survival.sql

# Required Queries

Query	Question
1	How many passengers are female?
2	How many passengers are male?
3	How many passengers are over 30 years of age?
4	How many passengers are under 30?
5	How many female passengers survived?
6	How many male passengers survived?
7	How many female passengers over 30 survived?
8	How many first-class passengers survived?
9	How many first-class male passengers survived?
10	How many first-class female passengers survived?

Query	Question
11	How many first-class female passengers did not survive?
12	How many first-class male passengers did not survive?
13	How many first-class male passengers under 20 did not survive?
14	How many first-class female passengers under 20 did not survive?
15	Maximum age of female survivors?
16	Minimum age of female survivors?
17	Mean age of female survivors?
18	Maximum age of male survivors?
19	Minimum age of male survivors?
20	Mean age of male survivors?