**DB-Management**

**Unit-03-Project**

**1) You must write all of the SQL (DDL statements) necessary to create all of the tables (relations) that you defined in the previous project.**

**Guest\_Speaker:**

Create table guest\_speaker (

Guest\_ID int NOT NULL UNIQUE,

Guest\_fname varchar(35),

Guest\_lname varchar(35),

Guest\_DOB date NOT NULL default(1971-01-01),

Guest\_wage Numeric(7,2) NOT NULL default(0000.00),

primary key (Guest\_ID));

**Camp:**

Create table camp (

Camp\_ID int Primary key,

Camp\_name varchar(35) default('camp'),

Camp\_address varchar(36) default('N/A'),

Camp\_year\_built year default(0000),

Camp\_years\_service numeric(3) default(000),

Camp\_weeks\_num numeric(2) default(00),

Guest\_ID int,

Foreign key (Guest\_ID) references guest\_speaker (Guest\_ID));

**Camp\_Leader:**

Create table camp\_leader (

Cmpldr\_ID int Primary key,

Cmpldr\_fname varchar(35),

Cmpldr\_lname varchar(35),

Cmpldr\_DOB date NOT NULL default(1971-01-01),

Cmpldr\_hiredate date NOT NULL default(1986-01-01),

Cmpldr\_wage Numeric(7,2) NOT NULL default(0000.00),

Camp\_ID int,

Foreign key (Camp\_ID) references camp (Camp\_ID));

**Cabin:**

Create table cabin (

Cabin\_ID int primary key,

Cabin\_slots\_num smallint NOT NULL default(5),

Cabin\_year\_built year NOT NULL default(2000),

Cabin\_years\_service numeric(3) default(000),

Cabin\_stories\_num smallint,

Cabin\_jr\_or\_sr\_type char(2),

Camp\_ID int,

Foreign key (Camp\_ID) references camp (Camp\_ID));

**Camper:**

Create table camper (

Camper\_register\_num int primary key,

Camper\_fname varchar(35) NOT NULL,

Camper\_lname varchar(35) NOT NULL,

Camper\_DOB date NOT NULL,

Camper\_1st\_year\_date date,

Camper\_address varchar(36),

Cabin\_ID int,

Foreign key (Cabin\_ID) references cabin (Cabin\_ID));

**Counselor:**

Create table counselor (

CNS\_ID int primary key,

CNS\_fname varchar(35),

CNS\_lname varchar(35),

CNS\_DOB date,

CNS\_returning char(1),

CNS\_wage numeric(7,2) default(0000.00),

Cabin\_ID int,

Foreign key (Cabin\_ID) references cabin (Cabin\_ID));

**Assistant:**

Create table assistant (

ASSIST\_ID int primary key,

ASSIST\_fname varchar(35),

ASSIST\_lname varchar(35),

ASSIST\_DOB date,

ASSIST\_returning char(1),

ASSIST\_wage numeric(7,2) default(0000.00),

CNS\_ID int,

Foreign key (CNS\_ID) references counselor (CNS\_ID));

**2) You must write three complex SQL SELECT queries that each use JOIN to combine data from at least three different tables (these are up to you). One of the queries must JOIN four tables. All three SQL queries need to use a WHERE clause as well (I would keep the WHERE clause simple to only one comparison).**

**A)**

select Cabin\_ID, CNS\_ID, CNS\_fname, CNS\_lname, Camper\_register\_num, Camper\_fname, Camper\_lname

from counselor join cabin using (Cabin\_ID) join camper using (Cabin\_ID)

where Cabin\_ID =1;

**B)**

select Cmpldr\_fname, Cmpldr\_lname, Guest\_fname, Guest\_lname, Camp\_name

from camp\_leader join camp using (Camp\_ID) join guest\_speaker using (Guest\_ID)

where Camp\_ID = 2;

**C)**

select Camp\_name, Cmpldr\_fname, Cmpldr\_lname, Cabin\_ID, CNS\_fname, CNS\_lname, CNS\_wage

from camp\_leader join camp using (Camp\_ID) join cabin using (Camp\_ID) join counselor using (Cabin\_ID)

where CNS\_wage between 2000 and 2500

order by CNS\_wage desc;

**3) Include a brief statement that says what each SELECT query is intended to do.**

The first “SELECT” query is intended to give information about which counselor and campers cabin “1” has.

The second “SELECT” is intended to give information about who is the guest speaker and camp leader(s) at the camp whose ID is two.

The third “SELECT” query is intended to give information about which counselors are getting paid between $2000 and $2500; who their camp leader(s) is; and which camp they work at. I added in an order by to make it look clean when the result comes out.