

Retro Games Extra Credit Lab

**Query7NaturalJoin:** Get the console name and number with every game that has been played on it with how many times it has been played.

```
SELECT cnum, gnum, consolename, timesplayed
```

```
FROM Consoles NATURAL JOIN Plays;
```

CNum	GNum	ConsoleName	TimesPlayed
C1	G100	Atari	22
C1	G300	Atari	21
C1	G300	Atari	44
C2	G300	Intellivision	25
C2	G400	Intellivision	52
C2	G600	Intellivision	24
C2	G200	Intellivision	27
C2	G500	Intellivision	14
C3	G600	Nintendo	33
C3	G300	Nintendo	27
C4	G100	PlayStation	72
C4	G600	PlayStation	55
C4	G300	PlayStation	2
C4	G500	PlayStation	44
C4	G100	PlayStation	15
C4	G400	PlayStation	8
C4	G200	PlayStation	14
C4	G300	PlayStation	55
C5	G500	Coleco	56
C5	G300	Coleco	69
C6	G300	GameBoy	44
C7	G300	SegaGenesis	86
C7	G600	SegaGenesis	38
C7	G500	SegaGenesis	1

**Cardinality:** 24

**Query8JoinUsing:** Get the game name and number and how many times it has been played on each console.

```
SELECT gnum, gamename, cnum, timesplayed
```

```
FROM games JOIN plays USING (gnum);
```

GNum	GameName	CNum	TimesPlayed
G100	Pong	C1	22
G100	Pong	C4	15
G100	Pong	C4	72
G200	PacMan	C2	27
G200	PacMan	C4	14
G300	Zelda	C7	86
G300	Zelda	C4	2
G300	Zelda	C1	21
G300	Zelda	C6	44
G300	Zelda	C4	55
G300	Zelda	C3	27
G300	Zelda	C2	25
G300	Zelda	C1	44
G300	Zelda	C5	69
G400	Doom	C2	52
G400	Doom	C4	8
G500	MarioBros	C2	14
G500	MarioBros	C4	44
G500	MarioBros	C5	56
G500	MarioBros	C7	1
G600	Pitfall	C4	55
G600	Pitfall	C2	24
G600	Pitfall	C3	33
G600	Pitfall	C7	38

**Cardinality:** 24

**Query9JoinOn:** Get the users name and number along with each game they have played and what consoles they played it on.

```
SELECT users.unum, users.username, plays.gnum, plays.cnum
```

```
FROM users JOIN plays ON users.unum = plays.unum;
```

<b>UNum</b>	<b>UserName</b>	<b>GNum</b>	<b>CNum</b>
U10	Sheldon	G100	C1
U10	Sheldon	G100	C4
U20	Missy	G500	C2
U20	Missy	G300	C4
U20	Missy	G300	C5
U20	Missy	G300	C6
U20	Missy	G300	C7
U20	Missy	G300	C2
U20	Missy	G300	C1
U20	Missy	G300	C3
U30	Meemaw	G300	C1
U30	Meemaw	G400	C2
U40	George	G600	C3
U40	George	G600	C7
U50	Mary	G200	C4
U50	Mary	G600	C4
U50	Mary	G400	C4
U50	Mary	G500	C4
U50	Mary	G500	C5
U50	Mary	G500	C7
U50	Mary	G600	C2
U50	Mary	G200	C2
U50	Mary	G100	C4
U50	Mary	G300	C4

**Cardinality:** 24