Part 1.

1.

T1.A	T1.Q	T1.R	T2.A	T2.B	T2.C
20	a	5	20	b	6
20	a	5	20	b	5

2.

T1.A	T1.Q	T1.R	T2.A	T2.B	T2.C
25	b	8	20	b	6
25	b	8	20	b	5

3.

T1.A	T1.Q	T1.R	T2.B	T2.C
20	a	5	b	6
20	a	5	b	5

4.

T1.A	T1.Q	T1.R	T2.A	T2.B	T2.C
20	a	5	20	b	5

Part 2.

1.

```
Π Name (σ Elo >= 2850 (Players))
```

2.

```
Π Name (PLAYERS ⋈Players.pID = Games.wpID GAMES)
```

3.

```
Π Name (σ Result = ‘1-0' (PLAYERS ⋈Players.pID = Games.wpID
GAMES))
```

4.

```
ρ YR (σ Year = 2018 (Events ⋈Events.eID = Games.eID GAMES))
ρ WYR (YR ⋈YR.wID = Players.pID Players)
ρ BYR (YR ⋈YR.bID = Players.pID Players)
Π Name (WYR ∪ BYR)
```

5.

```
ρ MC (σ pID = 1 (PLAYERS))
```

ρ MCW (σ Result = ‘0-1’ (MC ⋈MC.pID = Games.wpID GAMES))
ρ MCB (σ Result = ‘1-0’ (MC ⋈MC.pID = Games.bpID GAMES))
ρ MCWB (MCW ∪ MCB)
ρ MCWBName/Name(MCWB)
Π Name, Year (MCWB ⋈MCWB.eID = Events.eID EVENTS)
6.
ρ MC (σ pID = 1 (PLAYERS))
ρ MCW (MC ⋈MC.pID = Games.wpID GAMES)
ρ MCBO (Π Name (MCW ⋈MCW.bpID = Players.pID Players)
ρ MCB (MC ⋈MC.pID = Games.bpID GAMES)
ρ MCWO (Π Name (MCB ⋈MCB.wpID = Players.pID Players)
Π Name (MCWO ∪ MCBO)

Part 3.
1.
a)

Students.Name
Hermione
Harry

b)Get the name of anyone who did not receive a C.

2.
a)

S2.Name
Hermione

b)
Get the name of anyone with the same date of birth as Ron who’s is not named Ron.

3.
a)

Courses.Name

b)Get the name of courses which all students are enrolled.

4.

ρ C3X (πcID (σ cID >= 3000 && cID < 4000 (Courses))

πName ((πsID, cID E)÷C3X)⋈S