HW1

PART 1

```
/*
--1
SELECT count(*) as "Number of employees"
FROM employee
*/

/*
--2
SELECT count(*) as "Number of J.S"
FROM employee
WHERE Fname LIKE "J%" and Lname LIKE "S%"
*/

/*
--3
SELECT Sex , count(*) as "Total"
FROM employee
GROUP by Sex
*/

/*
--4
SELECT Pname, max(Dnum) as "max employees"
FROM project
*/

/*
--5
WITH var as (
```

```
        SELECT Essn,count(*) as c
        FROM dependent d
        WHERE d.Relationship not like "spouse"
        GROUP by d.Essn)
SELECT e.Fname
FROM var v,employee e
WHERE v.Essn = e.Ssn AND c > 1

*/

/*

/*
--6+7
WITH var as (
        SELECT e.Dno,count(*) employees
        FROM employee e
        GROUP by e.Dno
        )

SELECT d.Dname,max(emp.employees) employees
FROM var emp,department d
WHERE emp.Dno = d.Dnumber
*/



/*
--8
WITH var as(
        SELECT p.Pname, sum(w.Hours) as "Total Hours"
```

```
        FROM works_on w, project p
        WHERE p.Pnumber = w.Pno
        GROUP by p.Pname
        )

SELECT Pname,min("Total Hours") as "Min Hours"
FROM var
*/

/*
--9
SELECT d.Dname, sum(e.Salary)
FROM department d,employee e
WHERE e.Dno = d.Dnumber
GROUP by e.Dno
*/

/*
--10
with var as(
        SELECT Super_ssn,count(Super_ssn) as "Super"
        FROM employee
        GROUP by Super_ssn)
select Fname, max("Super") as "MAX Super"
FROM var as e1,employee e2
WHERE e1.Super_ssn = e2.Ssn
*/
```

TITANIC

1.

```
1  SELECT count(*) as "Total Passengers"
2  FROM titanic3
3  WHERE fare > 50 and pclass = 1
4
```

Find in editor

	Total Passengers
1	209

2.

```
1  SELECT DISTINCT t2.name
2  FROM titanic3 t1,titanic3 t2
3  where t1.pclass = 1 AND t2.pclass = 2 AND t1.fare < t2.fare
4
```

	name
268	Wilhelms, Mr. Charles
269	Williams, Mr. Charles Eugene
270	Wright, Miss. Marion
271	Yrois, Miss. Henriette ("Mrs ...

```
Execution finished without errors.
Result: 271 rows returned in 55ms
At line 1:
SELECT DISTINCT t2.name
FROM titanic3 t1,titanic3 t2
where t1.pclass = 1 AND t2.pclass = 2 AND t1.fare < t2.fare
```

3.

```
1  SELECT name
2  FROM titanic3
3  WHERE name like "&Jack%Dawson%" or name like "Jack&"
```

```
Execution finished without errors.
Result: 0 rows returned in 26ms
At line 1:
SELECT name
FROM titanic3
WHERE name like "&Jack%Dawson%" or name like "Jack&"
```

4.

SQL 1

```
1  SELECT pclass,sex,count(*),avg(survived)*100
2  From titanic3
3  GROUP by pclass,sex
4
```

	pclass	sex	count(*)	avg(survived)*100
1	*NULL*	*NULL*	1	*NULL*
2	1	female	144	96.5277777777778
3	1	male	179	34.0782122905028
4	2	female	106	88.6792452830189
5	2	male	171	14.6198830409357
6	3	female	216	49.0740740740741
7	3	male	493	15.2129817444219

POKEMONS

1.

SQL 1

```
1   SELECT DISTINCT t.trainername, max(pokelevel)
2   FROM Pokemon p,Trainers t
3   WHERE t.trainerID = p.trainerID
4
```

	trainername	max(pokelevel)
1	Cool♀	100

2.

SQL 1

```
1   SELECT DISTINCT t.trainername, p.pokename
2   FROM Pokemon p, Trainers t
3   WHERE t.trainername like "%a%" and p.pokename like "%p%"
```

	trainername	pokename
448761	Youngster Ham	Spewpa
448762	Youngster Caleb	Spewpa
448763	Youngster Kai	Spewpa
448764	Lad	Spewpa
448765	Youngster Jonathan	Spewpa
448766	Youngster Wyatt	Spewpa
448767	Youth Athlete♀ Hiromi	Spewpa
448768	Youthful Couple Ariel	Spewpa

```
Execution finished without errors.
Result: 448768 rows returned in 177263ms
At line 1:
SELECT DISTINCT t.trainername, p.pokename
FROM Pokemon p, Trainers t
WHERE t.trainername like "%a%" and p.pokename like "%p%"
```

3.

SQL 1

```
2
3  WITH var as(
4       SELECT DISTINCT t.trainername,count(p.trainerID) as "Total Pokemons"
5       FROM Pokemon p, Trainers t
6       WHERE t.trainerID = p.trainerID
7       GROUP by p.trainerID)
8
9  SELECT v.trainername, max("Total Pokemons")
10 FROM var v
11
```

	trainername	max("Total Pokemons")
1	Cool♀	6

AIRBNB

1.

SQL 1

```
1  SELECT name,id,max(calculated_host_listings_count)
2  FROM AB_NYC_2019
3  WHERE neighbourhood_group = "Manhattan"
4
```

	name	id	ax(calculated_host_listings_cour
1	Sonder | 180 Water | Incredibl...	30181691	327

2.

SQL 1

```
1  SELECT neighbourhood,max(price),min(price)
2  FROM AB_NYC_2019
3  WHERE room_type = "Private room"
4
```

	neighbourhood	max(price)	min(price)
1	Bedford-Stuyvesant	10000	0

3.

SQL 1

```
1  SELECT count(*) as "Total Apartments",max(price),min(price), avg(price)
2  FROM AB_NYC_2019
3  GROUP by neighbourhood
```

	Total Apartments	max(price)	min(price)	avg(price)
2	4	83	41	67.25
3	21	625	32	115.0
4	77	1500	35	171.779220779221
5	900	10000	25	117.187777777778
6	17	180	33	81.7647058823529
7	70	7500	55	367.557142857143
8	141	4200	18	144.432624113475
9	6	258	32	142.0

```
Execution finished without errors.
Result: 221 rows returned in 115ms
At line 1:
SELECT count(*) as "Total Apartments",max(price),min(price), avg(price)
FROM AB_NYC_2019
GROUP by neighbourhood
```