Queries

Problem 1:

```
1  select count(*)
2  from flights
3  where cancelled = 1 and origin = 'LAX';
```

Data Output

	count bigint
1	0

Problem 2:

```
1  select avg(arr_time - dep_time)
2  from flights
3  where origin = 'SFO';
```

Data Output

	avg interval
1	02:48:40

Problem 3:

```
1  select *
2  from flights
3  where origin = 'OAK' and fl_date = '2019-8-21'
4  order by op_carrier_fl_num asc, dep_time asc;
```

Data Output

	op_carrier_fl_num [PK] integer	fl_date [PK] date	op_unique_carrier character varying (2)	origin character varying (3)	dest character varying (3)	crs_dep_time time without time zone	dep_time time without time zone	dep_delay integer	taxi_out time without time zo

Problem 4:

```
1  select count(*)
2  from flights
3  where origin = 'OAK' and dest = 'ATL';
```

Data Output

	count bigint
1	0

Problem 5:

```
1  select fl_date, op_unique_carrier, op_carrier_fl_num
2  from flights
3  where diverted = 1;
```

Data Output

	fl_date [PK] date	op_unique_carrier character varying (2)	op_carrier_fl_num [PK] integer

Problem 6:

```
1  select *
2  from flights
3  where dest = 'JFK' and fl_date = '2019-8-15' and arr_delay < 0;
```

Data Output

	op_carrier_fl_num [PK] integer	fl_date [PK] date	op_unique_carrier character varying (2)	origin character varying (3)	dest character varying (3)	crs_dep_time time without time zone	dep_time time without time zone	dep_delay integer	taxi_out time without time

Problem 7:

```
1  select f1.op_unique_carrier, f2.op_unique_carrier
2  from flights as f1, flights as f2
3  where f1.origin = 'SFO'
4  and f1.dest = 'BOS'
5  and f2.origin = 'SFO'
6  and f2.dest = 'BOS'
7  and f1.fl_date = f2.fl_date
8  and f1.op_unique_carrier > f2.op_unique_carrier;
```

Data Output

	op_unique_carrier character varying (2)	op_unique_carrier character varying (2)

Problem 8:

```
1  select count(*)
2  from flights
3  where op_unique_carrier = 'UA' and
4  dest in
5  ('ACV', 'BFL', 'BUR', 'FAT', 'LGB', 'LAX', 'MMH', 'MRY', 'OAK', 'ONT', 'PSP', 'RDD', 'SMF', 'SAN', 'SFO', 'SJC', 'SBP', 'SNA', 'SBA', 'SMX'
6  and
7  origin in
8  ('ACV', 'BFL', 'BUR', 'FAT', 'LGB', 'LAX', 'MMH', 'MRY', 'OAK', 'ONT', 'PSP', 'RDD', 'SMF', 'SAN', 'SFO', 'SJC', 'SBP', 'SNA', 'SBA', 'SMX'
9
```

Data Output

	count bigint
1	1

Problem 9:

```
1  select avg(arr_time - wheels_off)
2  from flights
3   where origin = 'SFO' and dest = 'BOS';
4
```

Data Output

	avg interval
1	[null]

Problem 10:

```
1  select op_unique_carrier
2  from flights
3  where cancelled = 1
4  group by op_unique_carrier
5  having count(*) = (select count(*)
6  from flights
7  where cancelled = 1 order by count(*) desc limit 1);
```

Data Output

	op_unique_carrier character varying (2)
1	NK