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Need to take care of decimal points for SQL Server solution when using AVG



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8 The weather_state is given as varchar datatype, when SQL Server evaluates avg on varchar, it implicitly converts the data to integer. Avg on integer will round down to the nearest integer, like using the floor() function.

Below is one example -

```
create table test (id int);
insert into test values (15);
insert into test values (14);
select avg(id) avg_id from test;
```

Same test case will result in different for SQL Server and MySQL.

SQL Server shows 14, while MySQL shows 14.5

Apart from the decimal points could mess up with the AVG, other parts are mundane.

```
/* Write your T-SQL query statement below */
select country_name,
weather_type = case when AVG(weather_state*1.0)<=15.0 then 'Cold'
when AVG(weather_state*1.0)>=25.0 then 'Hot'
else 'Warm'
end
from Countries c inner join Weather w
on c.country_id = w.country_id
where [day] between '2019-11-01' and '2019-11-30'
group by country_name
```

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