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Homework 2.1

The first 5 questions require the use of the [HR dataset on AzureML](#). This is the same dataset you loaded on to AzureML in the week 1 homework. Continue working with that.

Question 1

1/1 point (graded)



Suppose you want to find the position and satisfaction_level of all employees who left (i.e., where the left field has value 1). Which of the following queries is the right query for this?

☒ Select position, satisfaction_level

from t1

where left = 1;



☐ Select position and satisfaction_level

from t1

where left = 1;

☐ Select position, satisfaction_level

where left = 1;

☐ Select position and satisfaction_level

where left = 1;

Submit

You have used 2 of 2 attempts

Question 2

1/1 point (graded)



Modify the query from Q1 so that you only see the position and satisfaction_level of those who left and also had satisfaction_level at least 0.80. How many such records are there in the dataset? Modify the query from Q1 so that you only see the position and satisfaction_level of those who left and also had satisfaction_level at least 0.80. How many such records are there in the dataset?

☐ 549

☒ 577 ✓

☐ 3571

☐ 7218

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Question 3

1/1 point (graded)

Write a SQL query to compute the average of the number of projects (field: "number_project") for employees who left the company. In which of the following ranges does it lie?

☐ Less than or equal to 2.000.

☐ Between 2.001 and 3.000.

☒ Between 3.001 and 4.000. ✓

☐ Greater than or equal to 4.001.



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Question 4

0/1 point (graded)

Suppose you want to list all records where the position is either "marketing" or "management". Which of the following queries will not work?

☒ Select *

from t1

where position like "ma%";



☐ Select *

from t1

where position = "marketing" or "management";

☐ Select *

from t1

where position = "marketing" or position = "management";

☐ Select *

from t1

where position like "%ma%";



Submit

You have used 2 of 2 attempts

Question 5

1/1 point (graded)

Write a SQL query that computes the `satisfaction_level` for each value of salary. If the salary values are ordered (low, medium, high), which of the following sequences of numbers lists the respective average `satisfaction_level` values?

☒ 0.601, 0.622, 0.637 ✓

☐ 0.637, 0.601, 0.622

☐ 0.622, 0.601, 0.637

☐ 0.637, 0.622, 0.601

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Question 6

0/1 point (graded)



Which of the following statements is true?

- ☐ Every data table must have at least one primary key, and the primary key column cannot have a null value.
- ☐ Every data table must have at least one primary key, but the primary key column may have null values.
- ☒ A data table need not have any primary key, but it must have at least one field of type integer. ✖
- ☐ A data table need not have any primary key, and the fields may be of any types.

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You have used 2 of 2 attempts



Question 7

1/1 point (graded)

Which of the following is the most useful purpose of an API?

- ☐ Identifying primary keys in a database.
- ☐ Joining two or more tables in a database.
- ☐ Converting primary data into secondary data.
- ☒ Obtaining data from a different organization. ✓

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Question 8

1/1 point (graded)



Consider the following query, using the movies datasets used in the video lectures:

```
select movie_title, year, count(distinct category)
from t1, t2
where t1.movie_title = t2.Nominee
group by movie_title, year;
```

Which of the following best describes the output of this query?

- ☒ For each movie and year, it lists the number of Oscar nominations. ✓
- ☐ For each movie, it lists all the years in which it got Oscar nominations.
- ☐ For each movie and year, it lists all movies that got Oscar nominations in at least two distinct categories.
- ☐ For each movie and year, it lists all categories in which the movie got Oscar nominations, with the list sorted by movie name and year.

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You have used 2 of 2 attempts

Multiple Choice

1/1 point (graded)



Why may it be a bad idea to simply delete all rows which have one or more values or fields where the data is missing?

- ☐ It is not a bad idea to delete such rows.
- ☐ Deletion could cause our dataset to be biased.
- ☐ The fact that the data is missing may itself be useful information and point to inadequacies in our data collection process.
- ☒ Both (b) and (c). ✓

Submit

You have used 2 of 2 attempts

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