✓ **Congratulations! You passed!**
TO PASS 80% or higher

Keep Learning

GRADE
100%

Week 3 Assessment

LATEST SUBMISSION GRADE
100%

1. Which of the following are features of relational databases that are not present in spreadsheets?   `1 / 1 point`

   ☑ Tables that have one or more columns in common

   > ✓ **Correct**
   > Correct! This is a feature of relational databases.

   ☑ Multiple tables

   > ✓ **Correct**
   > Correct! This is a feature of relational databases.

   ☐ Single table

   ☑ Data type validation

   > ✓ **Correct**
   > Correct! This is a feature of relational databases.

   ☐ Color and text formatting available.

2. Connect the following terms with their definitions.   `1 / 1 point`

Term	Definition
1. Variable	A. Row
2. Record	B. Column

   For your answer put the letters in order according to matching numbers for example if you match 1=A, 2=B, then your answer would be AB

   > BA

   > ✓ **Correct**
   > Correct!

3. # Programming Question   `1 / 1 point`

   Write a SQL query that pulls all rows and all columns from the PATIENTS table in the mimic3_demo database.

   Your SQL commands (things like select) must be all upper case or all lowercase.

   > SELECT * FROM mimic3_demo.PATIENTS

   > ✓ **Correct**
   > Correct!
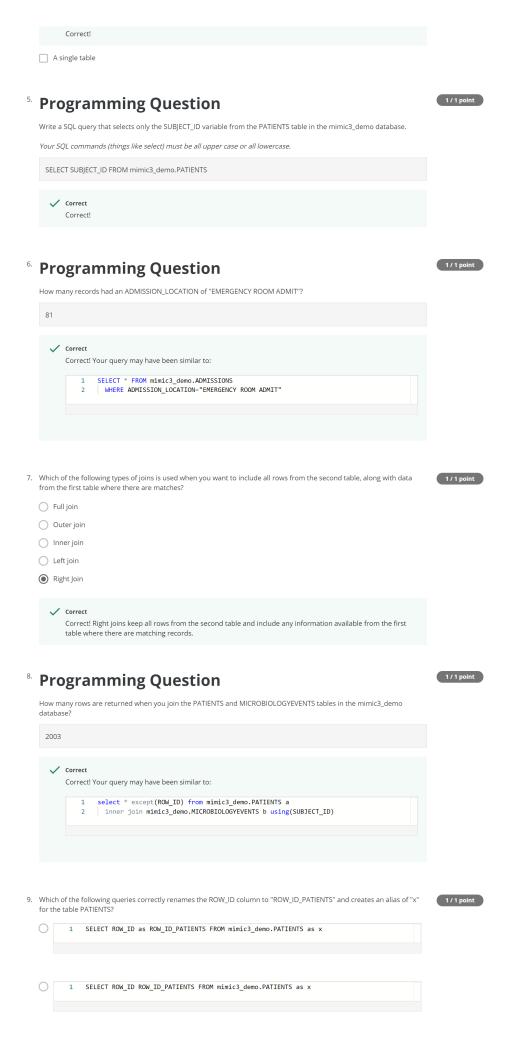
4. A relational database has: `1 / 1 point`
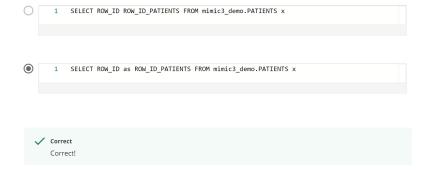
   ☐ Repeated data elements

   ☑ Tables related to one another by one or more columns

   > ✓ **Correct**
   > Correct!

   ☑ Two or more tables

   > ✓ **Correct**

☐ A single table

5. **Programming Question**

`1 / 1 point`

Write a SQL query that selects only the SUBJECT_ID variable from the PATIENTS table in the mimic3_demo database.

Your SQL commands (things like select) must be all upper case or all lowercase.

SELECT SUBJECT_ID FROM mimic3_demo.PATIENTS

> ✓ **Correct**
> Correct!

6. **Programming Question**

`1 / 1 point`

How many records had an ADMISSION_LOCATION of "EMERGENCY ROOM ADMIT"?

81

> ✓ **Correct**
> Correct! Your query may have been similar to:
>
> ```
> 1  SELECT * FROM mimic3_demo.ADMISSIONS
> 2    WHERE ADMISSION_LOCATION="EMERGENCY ROOM ADMIT"
> ```

7. Which of the following types of joins is used when you want to include all rows from the second table, along with data from the first table where there are matches?

`1 / 1 point`

◯ Full join

◯ Outer join

◯ Inner join

◯ Left join

⦿ Right Join

> ✓ **Correct**
> Correct! Right joins keep all rows from the second table and include any information available from the first table where there are matching records.

8. **Programming Question**

`1 / 1 point`

How many rows are returned when you join the PATIENTS and MICROBIOLOGYEVENTS tables in the mimic3_demo database?

2003

> ✓ **Correct**
> Correct! Your query may have been similar to:
>
> ```
> 1  select * except(ROW_ID) from mimic3_demo.PATIENTS a
> 2    inner join mimic3_demo.MICROBIOLOGYEVENTS b using(SUBJECT_ID)
> ```

9. Which of the following queries correctly renames the ROW_ID column to "ROW_ID_PATIENTS" and creates an alias of "x" for the table PATIENTS?

`1 / 1 point`

◯
```
1  SELECT ROW_ID as ROW_ID_PATIENTS FROM mimic3_demo.PATIENTS as x
```

◯
```
1  SELECT ROW_ID ROW_ID_PATIENTS FROM mimic3_demo.PATIENTS as x
```

```
1    SELECT ROW_ID ROW_ID_PATIENTS FROM mimic3_demo.PATIENTS x
```

```
1    SELECT ROW_ID as ROW_ID_PATIENTS FROM mimic3_demo.PATIENTS x
```

✓ **Correct**
Correct!

10. # Programming Question   1 / 1 point

What is the maximum number of prescription records that any individual patient has in their record?

1158

✓ **Correct**

Correct! Your code may be similar to:

```
1    select SUBJECT_ID, count(ROW_ID) as count_prescriptions
2      from mimic3_demo.PRESCRIPTIONS
3      group by SUBJECT_ID
4      order by count_prescriptions desc
```