grade 100%

## **Tools: Querying Clinical Data Models**

LATEST SUBMISSION GRADE	
100%	

✓ Correct

10070	
. The MIMIC diagram shows a "Data archive" that is processed further to create the MIMIC-III database. The three processes are labeled: "de-identification", "date shifting", and "format conversion". What types of impact can these three processes have on the use of the MIMIC-III database (pick all that apply):  Patients will not be able to recognize their own medical record	1/1 point
✓ Correct  Correct! This is the purpose of the de-identification process	
Patients will not be able to request medication refills	
<ul> <li>The original data will be lost</li> <li>✓ Complications caused by influenza (the "flu"), which occurs between October and March, cannot be studied</li> </ul>	
✓ Correct  Correct! Date shifting can move events that originally occurred in the winter months to a random month anywhere in the calendar year	
<ol> <li>Even though ROW_ID is present in every table, it should not use this variable in your queries. Which explanation below</li> </ol>	is 1/1 point
most plausible for why ROW_ID should not be used in queries?	
When there are too many rows, the ROW_ID value can become too large to use in a query or query result	
<ul> <li>Because ROW_ID is unique, it could be used to re-identify a patient, which is not allowed due to patient privacy concerns</li> </ul>	
ROW_ID values are reused/repeated across multiple tables, which can cause rows to be replicated in queries	
ROW_ID is present only to ensure each row in a table is unique	
✓ Correct Correct! The database technical term for this type of variable is called a "surrogate primary key"	
8. What are the advantages of having a model that includes both local (source) and network (standard) values for data in CDM? (pick all that apply)	a 1/1 point
Queries that use standard codes cannot be used by other data partners	
Queries that use local codes have less loss of data accuracy than queries that use standard codes	
✓ Correct Correct!	
☑ ETL debugging can use comparisons between source and standard values to check if terminology mapping is occurring correctly	
✓ Correct Correct!	
Source data elements can be used by other data partners in a data network	
i. Term hierarchies are useful in data queries because?	1/1 point
They are easy to navigate using a graphical viewer	
They consume less storage space	
They combine diseases and procedures together	
They enable a large set of related terms to be incorporated	

5. Which of the following are true statements with regard to MIMIC and OMOP?	1/1 point
The OMOP CDM cannot be used to support a single-institution study whereas MIMIC was constructed specifically as a single-institutional database.	i
Both CDMs represent patients although they use tables with different names.	
✓ Correct PATIENTS in MIMIC; PERSON in OMOP.	
Both CDMs store values in their original format.	
<ul> <li>Correct</li> <li>MIMIC only stores original values. OMOP stores original values in the source_value and source_concept_id fields.</li> </ul>	
The MIMIC CDM cannot be used to support international collaborations.	
✓ Correct  MIMIC does not have the idea of a standard set of terms.	
6. In reviewing queries, you learned that there are more admissions than patients. What is the best explanation for this observation?	r 1/1 point
O Hospitals like to split hospitalizations into multiple admissions so they can submit separate bills for reimbursement	·
Patients can be admitted to the hospital multiple times over a period of time.	
O Hospitals have many more beds than they have patients. The additional admissions represent these empty beds	
<ul> <li>Patients are often moved to different beds/rooms during the same hospital stay. The additional admissions represent these bed/room changes.</li> </ul>	
✓ Correct	