**TEAM MEMBERS**

**Plagiarism Policy**

Plagiarism is the representation of another's words, ideas, or work as one’s own. It is the student’s responsibility to self-educate on what constitutes plagiarism. All students are responsible for reading and understanding these rules and abide by the signed and submitted Academic Integrity Statement.

* Students may not show their solutions to the homework assignments to other students before the submission deadline.
* Students may discuss lecture materials, but they may not discuss homework assignments with their classmates.
* Unless otherwise stated, students may collaborate on assignments with others within the same group. For this course, all homework assignments are group efforts and only the project is a joint effort venture.

All submissions should be the original works. Any incidence of plagiarism (any exchange, reuse, or direct submission of other’s work, e.g., documents, code etc., as your own or as your team’s) or other academic dishonesty will be discussed with the student. Students found guilty of plagiarism can expect a Drexel University Alleged Academic Misconduct Report to be filed to the University Judicial Office, where a permanent record is maintained and result in an F for this course.

**Academic Integrity Statement**

To ensure adherence to the academic honesty policies, all students are required to sign and submit the following statement.

I certify that:

* Homework, project, exams and/or all other assignments in this course will be entirely my own original work, produced in response to the specific course requirements.
* I will not quote the words of any other person from a printed source or a website without indicating what has been quoted and providing an appropriate citation.
* I will not submit my work in this course to satisfy the requirements of any other course nor will I use the same work from any other course to satisfy the requirements of this course.

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| --- | --- | --- | --- |
| **Full Name** | **Username (abc123)** | **Date** | **Signature (initials)** |
| Abhishek Mohan Patil | Ap3869 | 1/18/2023 | Amp |
| VIJVAL VEMULA | vv354 | 1/18/2023 | VV |
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|  |  |  |  |

**PROJECT TITLE:** Synthetic Clinical Patient Database

1. **PATIENT DATA**

MITRE\_PATIENT is the table that contains basic information about patients in a hospital. Columns in this table are defined in the Vertabelo.com document named “**INFO-605 - Term Project - Synthetic Clinical Patient Database (Milestone 1)**”.

You **don’t need** to create this table in your database. Instead, you can access this table in your instructor’s database using the following (you MUST use the prefix “hc848.” before the table name):

SELECT \* FROM hc848.MITRE\_PATIENT;

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| --- | --- |
| Check  **(1 point)** | Each student MUST run the following query and provide a screenshot from SQL Developer, showing the result (do NOT change the following query). |
| Query (SQL): | SELECT user, count(\*) FROM hc848.MITRE\_PATIENT; |
| **Student Username** | **Screenshot** |
| 1.vv354 | Inserting image... |
| 2.ap3869 |  |
| 3.ar3876 |  |
| 4.pp673 |  |
| 5. |  |

1. **QUERIES – Part 1**

Respond to the following questions:

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| Question 1 | **What is the distribution of patients based on race?** |
| Query (SQL) | Select race, count(\*) from hc848.mitre\_patient group by race; |
| Result |  |

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| Question 2 | **How many male patients have information missing about passport?** |
| Query (SQL) | SELECT COUNT(\*)FROM hc848.MITRE\_PATIENT WHERE PASSPORT IS NULL AND GENDER='M'; |
| Result |  |

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| Question 3 | **Who is the patient with the highest healthcare expenses?** |
| Query (SQL) | SELECT patient\_id, healthcare\_expenses from hc848.mitre\_patient where healthcare\_expenses= (select max(healthcare\_expenses) from hc848.mitre\_patient); |
| Result |  |

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| Question 4 | **What is the gender distribution of patients in each county?** |
| Query (SQL) | select county, count(\*), gender from hc848.mitre\_patient group by gender, county order by county; |
| Result |  |

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| Question 5 | **Who is the county with the highest total amount of healthcare expenses?** |
| Query (SQL) | Select county, healthcare\_expenses from hc848.MITRE\_PATIENT where healthcare\_expenses = (select max(healthcare\_expenses) from hc848.MITRE\_PATIENT); |
| Result |  |

1. **QUERIES – Part 2**

Each group MUST come up with 5 new questions (you don’t have to use GROUP by in all queries), answer using a SQL query (SELECT), just using the data available in the “MITRE\_PATIENT” table, providing for each question:

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| Question 6 | List the patients who don’t have health coverage |
| Query (SQL) | SELECT patient\_id,first\_name, last\_name, healthcare\_coverage from hc848.mitre\_patient where healthcare\_coverage= 0; |
| Result |  |

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| Question 7 | Display death count of patients per county |
| Query (SQL) | SELECT county, count(\*) from hc848.mitre\_patient where deathdate is not null  group by county |
| Result |  |

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| Question 8 | Display the details of patients whose birthplace is outside US |
| Query (SQL) | select patient\_id, first\_name, last\_name, birth\_place from hc848.mitre\_patient where birth\_place not like '%US'; |
| Result |  |

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| Question 9 | County wise list where healthcare expenese is more than 50,000 |
| Query (SQL) | SELECT count(\*), county from hc848.mitre\_patient where healthcare\_expenses >50000  group by county  order by county DESC; |
| Result |  |

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| Question 10 | List patient names whose health care expense exceeds their healthcare coverage |
| Query (SQL) | select patient\_id,first\_name, last\_name, healthcare\_expenses,healthcare\_coverage, healthcare\_expenses - healthcare\_coverage from hc848.mitre\_patient  where healthcare\_expenses - healthcare\_coverage < 0; |
| Result |  |

1. **SUBMISSION**

Your group submission MUST be this document in **Word format** (**not PDF, not ZIP**).