

# IT Assignment Coversheet

**Course**: PROG8080 – Database Management

Program Coordinator: David Allison

Professor/Instructor: Mark Morell

Assignment #: Choose from list

Assignment Type:  Individual  Pair  Team

Date Submitted:

# **Student Information**

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# IT Standards Marking Sheet

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| --- | --- | --- | --- | --- | --- |
| **Programming & SQL Standards - 1% each** | | | |  | |
|  | P1 Meaningful Identifiers | |  | P20 Code Module Size and Focus | |
|  | P2 Prefixes & Hungarian Notation | |  | P21 Single Point of Exit | |
|  | P3 Identifier Case Conventions | |  | P22 Disabled Code & Misleading | |
|  | P4 Header Comments | |  | P23 Each Class in a File Named | |
|  | P5 Method Comments | |  | P24 Class Organization | |
|  | P9 "Magic" Numbers and Strings | |  | P25 Unwise Coding Practice | |
|  | P10 Constant Scope | |  | SQL1 Table Names | |
|  | P11 Indentation | |  | SQL2 Column Names | |
|  | P12 Line Length and Wrapping | |  | SQL3 Keywords & Function Names | |
|  | P13 Blank Lines | |  | SQL4 Header Comments | |
|  | P14 Code Crowding | |  | SQL5 Output Messages | |
|  | P15 Space Around Binary Operators | |  | SQL6 Implementation Comments | |
|  | P16 Space After Delimiters | |  | SQL7 Formatting | |
|  | P17 Curly Brace Alignment | |  | SQL8 Subquery IN and = | |
|  | P19 Global Variables | |  |  | |
|  | |  | | **Late Assignments** | |
| **Days Late** | **Penalty %** |
| **Base Mark:** | |  | | 1 | 5 |
| **Standards Penalties: - %** | | - | | 2 | 10 |
| **Late Penalties: - %** | | - | | 3 | 20 |
| **Final Mark:** | |  | | 4 | 40 |
|  | |  | | 5 | 60 |
| 6 | 80 |
| 7 | 100 |
|  |  |

**Assignment**: - 3

A screenshot of a computer screen

Description automatically generatedQ1. Find the number of records of people in the database who have a “Title” associated with their record.

A screenshot of a computer

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A screenshot of a computer screen

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Q2. Get a list of the *unique* last names of people in the database who have a first name of either “Ken” or “Kenneth”. Sort the last names in descending order.

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A screenshot of a social media post

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Q3. Retrieve the address ID, a column with the address Line 1 and address line 2 concatenated (and formatted well) and the city for addresses that actually have a second line address and the city is either Waterloo, Toronto or Guelph. Order by city in ascending order and then by the full address in descending order.

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Q4. For addresses in the city of Ottawa, get the following information as separate columns:

* Address Line 1
* Address Line 2
* City
* Postal Code
* Date the Record was Last Modified
* How many days ago the record was last modified

Sort the data in a way that makes sense and include a comment as to why you chose the sort order. Also be sure that the column headers all have meaningful names.

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Q5. We’d like to get the Last Names, First Names, Middle Name and Title for people with last names that end with “ll” (i.e. 2 L’s) and a first name that has exactly four characters. Get only the first 15 records when the results are sorted by last name and then first name.

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Q6. We’d like to see product inventory that we have in-stock but is low in supply and location ID of 4. Write a query to retrieve the product ID, shelf, bin and quantity where the quantity is greater than 0 but 25 or less. Sort the results as you see fit and include a comment describing why you sorted how you did.

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Q7. Expand upon the query in Question #6 (so keep the conditions of being at location ID 4 with a quantity greater than 0 but 25 or less) by joining your information with the Product table so that you can include the following columns in the result:

* Product Name
* Product Number
* Colour
* Days To Manufacture
* Shelf
* Bin
* Quantity

Sort these results in descending order by quantity and then by product #.

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A screenshot of a social media post

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