

_____ **Test ID Number**

_____ **Student ID Num**

ID Sheet: Write your seven-digit BYUH Student ID number in the blank above. Turn in this sheet when you complete the test. It will be kept separate until grading is completed, and will then be used to assign your score to the proper person.

The “In-Class Test Rules” provided herewith apply to this exam. Use the Test ID Number shown above to identify each of your answer sheets. **DO NOT WRITE YOUR STUDENT ID NUMBER OR NAME ON ANY OTHER TEST SHEET.**

Do not use any CGI. Make everything run directly from the command line.

For database programs, remember to not reveal your identity. Pretend your user id is “UUU” and your password is “PPP.” Identify any other assumptions you are making.

1 List Databases

Write a perl program that lists all the databases in the mysql server.

2 DBI Counting

Imagine a mysql database INVENTORY table. Each item in inventory has a COST. Write a command-line program that uses a loop to examine every row in the table. Tell how many inventory items have a COST of 25.00 or more.

3 License Plates

Prompt for and read in a license plate number. Tell whether the number is valid or not. Assume that a valid license number consists of exactly two letters followed by exactly four digits.

Partial Credit grading is subjective. If it is right, it is right. If not, I have to assess how close it is. To control for subjective grading bias, each problem is blind-graded (anonymously) in a random order.

Grading Rubric: 40=A 30=B 20=C 10=D 00=F

40 (A): You nailed it. No errors or only minor errors.

37 (A-): One important but minor error.

30 (B): One major error, but essentially correct

20 (C): Right idea, but several (two) major errors.

15 (C-): Right idea, but too many (three or more) major errors.

10 (D): Right ballpark, but still a long ways off.

5 (D-): Something is right. Mostly lost.

0 (F): No evidence of any idea how to solve this.

-5 for minor compliance violations, writing in forbidden areas, incorrect sheet labeling, etc.

-10 for major compliance violations, failure to label your sheets, etc.

43 students

Problem 1: 0 0 0 0 0 0 5 5 10 10 10 10 10 10 10 10 15 15 15 20 20 **20** 20 20 25 25 25 25 25 25 25 25 30 35 37 37 37 37 40 40 40 40 40

Problem 2: 0 0 0 0 0 0 0 0 5 5 5 10 10 10 15 15 15 15 15 **20** 20 20 20 20 25 25 25 25 25 30 30 30 30 30 32 33 37 40 40 40 40

Problem 3: 0 0 0 0 0 0 0 0 5 5 5 5 5 10 10 10 10 10 15 **20** 20 25 25 25 25 25 25 30 30 30 33 35 37 37 40 40 40 40 40 40

Total: 0 0 5 5 10 10 15 15 15 15 25 25 30 35 40 45 45 45 50 50 **50** 55 55 60 65 65 67 70 75 77 85 88 90 97 100 105 105 107 112 117 117 120