Contestant Number:

Time:

Rank:

DATABASE APPLICATIONS

(240)

REGIONAL – 2015

**Production:**

Job 1: Volunteer Table (175 points)

Job 2: Service Table (120 points)

Job 3: Create a Permanent Relationship ( 25 points)

Job 4: Garden Grove Volunteers Query ( 80 points)

Job 5: Garden Grove Volunteers Report ( 35 points)

***TOTAL POINTS (435 points)***

**Failure to adhere to any of the following rules will result in disqualification:**

1. **Contestant must hand in this test booklet and all printouts. Failure to do so will result in disqualification.**
2. **No equipment, supplies, or materials other than those specified for this event are allowed in the testing area. No previous BPA tests and/or sample tests or facsimile (handwritten, photocopied, or keyed) are allowed in the testing area.**
3. **Electronic devices will be monitored according to ACT standards.**

No more than ten (10) minutes orientation

No more than 90 minutes testing time

No more than ten (10) minutes wrap-up

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*Workplace Skills Assessment Program* competition.

***DATABASE APPLICATIONS***

**SCORING SHEET**

|  |  |  |
| --- | --- | --- |
| ***Unless indicated otherwise, student receives all points or none.*** | **Points Possible** | **Points Earned** |
| **Job 1 – Volunteer Table *(175 points maximum)*** |  |  |
| Designed as instructed (10 points off per field for inaccurate field names, inappropriate data types, and properties not set as instructed) | **100** |  |
| Proofreading/data entry (1 point off for each error) | **55** |  |
| Sorted by Last Name (ascending) | **10** |  |
| Printed using best fit in landscape orientation (all data shows, 1 page) | **10** |  |
| **Job 2 – Service Table *(120 points maximum)*** |  |  |
| Designed as instructed (10 points off per field for inaccurate field names, inappropriate data types, and properties not set as instructed) | **50** |  |
| Proofreading/data entry (1 pointsoff for each error) | **50** |  |
| Sorted by Service Date, oldest to newest | **10** |  |
| Printed in portrait orientation, 1 page, all fields fully visible | **10** |  |
| **Job 3 – Create a Permanent Relationship *(25 points maximum)*** |  |  |
| One-to-Many relationship created | **10** |  |
| Referential integrity enforced | **10** |  |
| Printed with both tables fully visible | **5** |  |
| **Job 4 – Garden Grove Query *(80 points maximum)*** |  |  |
| Correct fields are visible: Vol Id, First Name, Last Name, Shirt Size, Merit Badge, Service Date, Hours, Area, City (5 points off for each missing field) | **45** |  |
| Restricted to Garden Grove volunteers | **10** |  |
| Sorted by Last Name (ascending) and then Service Date (ascending) | **10** |  |
| Results show design correctly joins both tables (no extra records) | **10** |  |
| Printed in landscape orientation, 1 page, all fields fully visible | **5** |  |
| **Job 5 – Garden Grove Volunteers Report *(35 points maximum)*** |  |  |
| Title is GardenGroveVolunteers-XX-XXXX-XXXX | **5** |  |
| Correct fields are included in the Report: all fields in the query except City | **10** |  |
| Each volunteer's Service Dates are sorted oldest to newest | **10** |  |
| Printed in portrait orientation, 1 page, all fields fully visible | **10** |  |
| **Total Points Earned** | **435** |  |

# GENERAL INSTRUCTIONS

1. Check that you have all the test pages.
2. Your name, initials, and school should NOT appear on any work you submit. Instead, type your contestant number everywhere XX-XXXX-XXXX appears.
3. If you finish before the end of the testing time, notify the administrator of the contest. Time may be a factor in determining placement in the event of a tie.
4. When turning in your completed work, order the printed pages by job number, and place your scoring sheet on top of all of your jobs. **Turn in all pages printed including incorrect printouts** (draw a line through each incorrect printout, and place it at the back of the group)**.**

**Project:** The nonprofit organization Helping Hands is interested in tracking the hours volunteers spend working for them and giving the volunteers a merit badge after reaching target levels. You offered to build them a sample database. Create a database named **Regional-XX-XXXX-XXXX**, and save it as directed by the administrator.

## Job 1: Volunteer Table

1. Create the table named **Volunteers-XX-XXXX-XXXX** shown below. Use the same field names and assign the best data type for each field. Vol ID is the primary key.
2. Enter all records shown below:

| **Volunteers-XX-XXXX-XXXX** | | | | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Vol ID** | **First Name** | **Last Name** | **Address** | **City** | **State** | **ZIP** | **Phone** | **Shirt Size** | **Merit Badge** |
| A-001 | Betsy | Knowles | 4576 Placita Ct | Anaheim | CA | 92805 | (562) 901-4572 | Sm | Bronze |
| A-003 | Gail | Smarts | 6146 Angus Ave | Anaheim | CA | 92805 | (562) 901-3472 | Xl | Bronze |
| A-004 | Phil | Godson | 3522 Camelot Dr | Anaheim | CA | 92805 | (562) 901-5478 | Lg | Bronze |
| A-008 | Tracy | Eekhoff | 1058 Twin Oaks | Anaheim | CA | 92805 | (562) 901-1872 | Xl | Bronze |
| G-002 | Mike | Robbins | 7304 Hersman St | Garden Grove | CA | 92840 | (714) 452-7849 | Md | Bronze |
| G-004 | Dennis | Sneider | 132 Thousand Oaks | Garden Grove | CA | 92840 | (714) 452-2587 | Sm | Bronze |
| G-005 | Seth | Heiden | 5753 Woodlawn | Garden Grove | CA | 92840 | (714) 452-0010 | Me | Bronze |
| G-006 | Julie | Edison | 4137 Thornes | Garden Grove | CA | 92840 | (714) 452-7444 | Lg | Bronze |
| S-003 | John | Kamrath | 3240 Cascade | Santa Ana | CA | 92701 | (949) 543-1022 | Sm | Bronze |
| S-006 | Natalie | Braden | 1099 Burton | Santa Ana | CA | 92701 | (949) 543-7812 | Xl | Bronze |
| S-007 | Paul | Atchison | 4544 Edge Hill | Santa Ana | CA | 92701 | (949) 543-6011 | Lg | Bronze |

1. Adjust the column widths so all entries are visible.
2. Sort the table on Last Name (ascending).
3. Print the table in landscape orientation. All data should be visible on one page.

## Job 2: Service Table

1. Create a table named **Service-XX-XXXX-XXXX** shown below. Use the same field names and assign the best data type for each field unless specified.

Data Type specifications:  
 ServiceID data type should be Number and primary key.   
 Service Date data type should be Date and formatted as Short Date.   
 Hours data type should be Number with Field Size Single, Format Fixed, and Decimal Places of 2.

1. Enter all of the records shown below:

| **Service-XX-XXXX-XXXX** | | | | |
| --- | --- | --- | --- | --- |
| **ServiceID** | **Vol ID** | **Service Date** | **Hours** | **Area** |
| 1 | G-004 | 7/24/2013 | 6.25 | Reception |
| 2 | G-006 | 7/20/2013 | 4.50 | Accounting |
| 3 | G-002 | 10/3/2013 | 8.00 | Reception |
| 4 | S-003 | 2/15/2014 | 4.00 | Marketing |
| 5 | A-001 | 2/15/2014 | 6.00 | Accounting |
| 7 | G-005 | 7/31/2013 | 5.75 | Reception |
| 8 | G-006 | 8/19/2013 | 5.25 | Accounting |
| 9 | G-002 | 11/3/2013 | 6.00 | Reception |
| 10 | S-007 | 2/28/2014 | 3.25 | Marketing |
| 11 | A-004 | 3/5/2014 | 2.50 | Accounting |

1. Adjust the column widths so all entries are visible.
2. Sort the table by Service Date in oldest to newest order.
3. Print the table in portrait orientation. All data should be visible on one page.

## Job 3: Create a Permanent Relationship

1. Create a permanent relationship between the two tables.
2. Enforce referential integrity.
3. Resize/move the tables so each table name and each field is fully visible in the relationship window.
4. Create and print the relationship report.

## Job 4: Garden Grove Volunteers Query

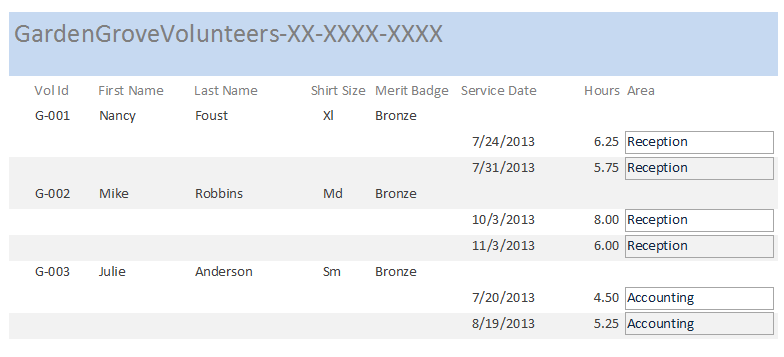
1. Create a query named **GardenGroveVolunteers-XX-XXXX-XXXX** using the tables/fields listed below:

|  |  |
| --- | --- |
| Volunteers | Service |
| Vol ID | Service Date |
| First Name | Hours |
| Last Name | Area |
| Shirt Size |  |
| Merit Badge |  |
| City |  |

1. Restrict the results to only volunteers that live in the city Garden Grove.
2. Sort by Last Name in ascending order and then by Service Date (ascending).
3. Print the results in landscape orientation. All data should be visible on one page.

## Job 5: Garden Grove Volunteers Report

1. Create a stepped report based on the query as shown below. Your report format such as borders, colors, and placement of fields may be different, but it must
   1. Have the same title.
   2. Show the same fields.
   3. Sort each volunteer’s Service Dates in oldest to newest order (ascending).
   4. Have field widths/placement adjusted so all data is visible on one page in Portrait orientation.
2. Save the report as **GardenGroveVolunteers-XX-XXXX-XXXX**.
3. Print the report.



Put your printouts in the following order:

1. Volunteers table
2. Service table
3. Query
4. Report
5. All incomplete/incorrect printed pages (draw a line through each one).