

DATABASE APPLICATIONS

(240)

REGIONAL – 2017

Production:

Job 1: Vendor Table	_____	(190 points)
Job 2: Vendor Details Table	_____	(110 points)
Job 3: Create a Permanent Relationship	_____	(15 points)
Job 4: Vendor Status Query	_____	(45 points)
Job 5: Vendor Status Report	_____	(45 points)
TOTAL POINTS	_____	(405 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 ninety (90) minutes testing time
No more than ten (10) minutes wrap-up

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GENERAL INSTRUCTIONS

1. Make certain this test booklet contains Jobs 1-5.
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.
5. Save all work with your contestant number on the flash drive provided by the contest administrator.

**DATABASE APPLICATIONS
SCORING SHEET**

<i>Unless indicated otherwise, student receives all points or none.</i>	Points Possible	Points Earned
Job 1 – Vendor Table (190 points maximum)		
Designed as instructed (10 points off per field for inaccurate field names, inappropriate data types, and properties not set as instructed)	70	
Proofreading/data entry (100 – Zero errors; 90 – 1 error; 70 – 2 errors; 0 – 3+ errors)	100	
Sorted by Vendor (ascending)	10	
Printed using best fit in landscape orientation (all data shows, 1 page)	10	
Job 2 – Vendor Detail Table (110 points maximum)		
Designed as instructed (10 points off per field for inaccurate field names, inappropriate data types, and properties not set as instructed)	40	
Proofreading/data entry (1 point off for each error)	50	
Sorted by ‘Entry Date’ by oldest to newest	10	
Printed in portrait orientation, 1 page, all fields fully visible	10	
Job 3 – Create a Permanent Relationship (15 points maximum)		
Relationship created	10	
Printed with both tables fully visible	5	
Job 4 – Vendor Status Query (45 points maximum)		
Correct fields are visible: Vendor, WorkPhone, Status, Rating (5 points off for each missing field)	20	
Sorted by Vendor (ascending) and then by Rating (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 – Vendor Status Report (45 points maximum)		
Title is Vendor Status-XX-XXXX-XXXX	5	
Correct fields are included in the Report: all fields in the query	10	
Grouped by Rating	10	
Sorted by Status	10	
Printed in portrait orientation, 1 page, all fields fully visible	10	
Total Points Earned	405	

Project: Professional Business Associates develops and sells software, hardware, and services. The services provided are: systems analysis, software development and design, marketing, training development, and hardware and software sales. Professional Business Associates uses several vendors to help accomplish all of the various services.

Julie Smith, Human Resources Department Manager, has asked you to create a database to keep track of all of the vendors. Create a database named **Regional-XX-XXXX-XXXX**, and save it as directed by the administrator.

Job 1: Vendor Table

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

VendorID	Vendor	StreetAddress	City	State	ZipCode	WorkPhone
AX345	Acquia	53 State Street	Boston	MA	02109	617-388-9493
CS402	Clearshark	7030 Dorsey Road	Hanover	MD	21076	443-853-1900
DE305	DevelopIntelligence	3200 Carbon Place	Boulder	CO	80301	720-445-4360
DH220	Data Hardware Depot	715 E Montecito St	Santa Barbara	CA	93101	805-845-4620
HA201	Steelbrick	1730 S El Camino Real	San Mateo	CA	94402	650-627-7030
IF501	Intrust Funding	14508 NE 20th St	Bellevue	WA	98007	425-999-5203
IN350	Intelity	7335 W Sand Lake Rd	Orlando	FL	32819	888-738-7271
JM502	Jemsu	940 Lincoln St	Denver	CO	80203	720-307-7285
KP051	Knight Point Systems	1775 Wiehle Avenue	Reston	VA	20190	703-657-7050
UE240	Unitrends	200 Wheeler Rd	Burlington	MA	01803	866-359-5411

3. Adjust the column widths so all entries are visible.
4. Sort the table by Vendor (ascending).
5. Print the table in landscape orientation. All data should be visible on one page.

Job 2: Vendor Detail Table

1. Create a table named **VendorDetail XX-XXXX-XXXX** shown below. Use the same field names and assign the best data type for each field. VendorID is the primary key (use the same data type for VendorID in ALL tables).
2. Enter all records shown below:

VendorID	EntryDate	Status	Rating
AX345	2/11/2016	Active	2 - Good
CS402	3/10/2014	Active	3 - Fair
DE305	4/14/2016	Active	1 - Excellent
DH220	7/29/2014	Active	2 - Good
HA201	3/25/2015	Inactive	1 - Excellent
IF501	9/24/2014	Active	2 - Good
IN350	8/24/2015	Inactive	2 - Good
JM502	4/8/2016	Active	3 - Fair
KP051	8/12/2016	Active	1 - Excellent
UE240	9/15/2015	Active	3 - Fair

3. Sort the table by EntryDate (oldest to newest).
4. 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 VendorID in 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: Vendor Status Query

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

<u>Vendors</u>	<u>VendorDetail</u>
Vendor	Status
WorkPhone	Rating

2. Sort by Rating (ascending order). Then Sort by Vendor (ascending order) within each Rating.
3. Print the results in landscape orientation. All data should be visible on one page.

Job 5: Vendor Status Report

1. Create a stepped report based on the Vendor Status Query as shown below. Your report format such as borders, colors, and placement of fields may be different, but it must
 - a. Have the same title.
 - b. Show the same fields.
 - c. Be grouped by Rating.
 - d. Be sorted by Status.
 - e. Have field widths/placement adjusted so all data is visible on one page in Portrait orientation.
2. Save the report as **Vendor Status-XX-XXXX-XXXX**.
3. Print the report.

Vendor Status XX-XXXX-XXXX

Rating

Status

Vendor

WorkPhone

When finished, place your printouts in the following order:

1. Vendor Table
2. Vendor Detail Table
3. Query
4. Report