Member ID:	
Time: _	
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DATABASE APPLICATIONS (240)

REGIONAL 2025

Production:

Test Time: 90 minutes

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GENERAL GUIDELINES:

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

- 1. Member must hand in this test booklet and all printouts if any. 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 (handwritten, photocopied, or keyed) are allowed in the testing area.
- 3. Electronic devices will be monitored according to ACT standards.

EXAM GUIDELINES:

- 1. Ensure this test booklet contains Jobs 1-4.
- 2. Key all jobs according to the instructions given.
- 3. Correct all formatting, spelling or grammar errors. Use the formatting guide in the *Style & Reference Manual*.
- 4. Your name or initials should *not* appear on any work you submit. Use your Member ID on any occasion you would normally key your reference initials.
- 5. If you complete the event before the end of the time allotted, notify the proctor. Time may be considered a factor in determining a winner when there is a tie score.
- 6. Place your scoring sheet on top of your jobs. Jobs should be placed in numerical order.



SCORING RUBRIC

	Points Possible	Points Earned
Job 1 – Employee Table		
Designed as instructed.		
10 points off per field for inaccurate field names, inappropriate data types, and properties not set as instructed	70	
Production standards	10	
0 Errors = 10 points, 1 error = 9 points, 2 errors = 7 points, 3 = 5 points, 4+ errors = 0 points	10	
Sorted by Hire Date (descending)	10	
Printed or uploaded in portrait orientation (all data shows, 1 page)	10	
Subtotal	100	
Job 2 – Vehicle Table		
Designed as instructed.		
10 points off per field for inaccurate field names, inappropriate	60	
data types, and properties not set as instructed		
Production standards	1.0	
0 Errors = 10 points, 1 error = 9 points, 2 errors = 7 points, 3 = 5 points, 4+ errors = 0 points	10	
Sorted by Vehicle Num (ascending)	10	
Printed in landscape orientation, 1 page, all fields fully visible	10	
Subtotal	90	
Job 3 – Create a Permanent Relationship		
Relationship created	10	
Printed with both tables fully visible	10	
Subtotal	20	
Job 4 – Vehicle Type Query		
Correct fields are visible: Last Name, First Name, Vehicle Make, Vehicle Model (5 points off for each missing field)		
Sorted by Last Name (ascending)		
Results show design correctly joins both tables (no extra records)		
Printed in portrait orientation, 1 page, all fields fully visible		
Subtotal	10 60	
Total Points Earned	270	



Digital Solutions 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. Digital Solutions allows authorized employees to operate a vehicle in the course of their assigned work. Some employees may choose to operate their own vehicle while performing assigned duties.

Julie Smith, Human Resources Department manager, has asked you to create a database to keep track of all employees and their driving/vehicle records. Create a database named **Regional Member ID**

JOB 1: Employee Table

- 1. Create the table named **Employee Member ID**.
 - a. Employee ID is the primary key.
 - b. Field Names should <u>not</u> include spaces.
 - c. Data Type and Properties:

Field	Data Type	Properties
Employee ID	Short Text	Field Size: 7
Last Name	Short Text	Field Size: 30
First Name	Short Text	Field Size: 30
DL Number	Number	Field Size: Long Integer
Hire Date	Date/Time	Format: Short Date
DOT Physical Due	Date/Time	Format: Short Date
Vehicle Num	Number	Field Size: Long Integer

2. Enter all records shown below:

Employee ID -	LastName -	FirstName -	DLNumber -	HireDate -	DOTPhysical Due -	VehicleNUM -
ASD3021	Renick	Edna	104529483	10/21/2014	11/26/2024	213
CEO1456	Wells	Nancy	101142748	3/18/2009	4/23/2024	218
FSD3920	Rosen	Harvey	104950293	5/21/2016	6/18/2024	229
HRD3401	Smith	Julie	104839103	4/14/2014	5/26/2024	225
ITD3019	Carlson	Tom	106930583	11/3/2021	12/14/2024	224
MDK1045	Meyer	Roger	104549288	3/26/2018	3/26/2024	235

- 3. Adjust the column widths so all entries are visible.
- 4. Sort the table by Hire Date (descending).
- 5. Print or upload as directed to the table in portrait orientation.
 - a. All data should be visible on one page.
- 6. Take a screenshot of the table design view and paste it onto a Word document.
 - a. Save as Table Design Screenshots Member ID.



JOB 2: Vehicle Table

- 1. Create a table named Vehicle Member ID
 - a. VIN Num is the primary key.
 - b. Field Names should <u>not</u> include spaces.
 - c. Data Type and Properties:

Field	Data Type	Properties
Vehicle Num	Number	Field Size: Long Integer
VIN Num	Short Text	Field Size: 25
Vehicle Year	Number	Field Size: Long Integer
Vehicle Make	Short Text	Field Size: 30
Vehicle Model	Short Text	Field Size: 30
Plate Number	Short Text	Field Size: 10

2. Enter all records shown below:

VehicleNum -	VINNum -	VehicleYear -	VehicleMake	VehicleModel -	PlateNumber -
214	1HBH41JXMN109186	2019	GMC	Yukon	H23308
224	JHLRD77874C026456	2022	Toyota	Camry	K54614
218	1HGBH41JXMN3918	2023	Ford	Focus	150908
235	1G1YY25R695700001	2021	Nissan	Murano	139408
229	1G1YZ23J9P5800001	2022	Hyundai	Sonata	YTE834
225	1GNCS1Z3M0115561	2023	Dodge	Challenger	H53507

- 3. Sort the table by VehicleNum (ascending).
- 4. Print or upload as directed to the table in landscape orientation.
 - a. All data should be visible on one page.
- 5. Take a screenshot of the table design view and paste on the same document as Job 1.
 - a. Save as Table Design Screenshots Member ID.

JOB 3: Create a Permanent Relationship

- 1. Create a permanent relationship between VehicleNum in the two tables.
- 2. Resize/move the tables so each table name and each field are fully visible in the relationship window.
- 3. Create and print or upload as directed the relationship report.
 - a. All data should be visible on one page.



JOB 4: Vehicle Type Query

1. Create a query named Vehicle Type Query Member ID using the tables/fields listed below:

Field	Table
Employee ID	Employee Member ID Table
Last Name	Employee Member ID Table
First Name	Employee Member ID Table
Vehicle Num	Vehicle Member ID Table
Vehicle Make	Vehicle Member ID Table
Vehicle Model	Vehicle Member ID Table

- 2. Employee ID is not shown in the query.
- 3. Sort by Last Name (ascending order).
- 4. Print or upload as directed the results in portrait orientation.
 - a. All data should be visible on one page.

When finished, these are your printouts or uploads:

- 1. Employee Member ID
- 2. Vehicle Member ID
- 3. Table Design Screenshots Member ID
- 4. Relationship Member ID
- 5. Vehicle Type Query Member ID

