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| Week #12 Assignment  10 Percent Assignment | Assignment 4  Maziar Shajari  Advanced Database |

* **Do not submit .zip files. Submit only text files (MS Word is preferred).**
* **You have to use everything you have already learned, to complete your assignment. Adding comments, renaming the column’s title if needed, proper format of the queries, …**
* **Do not forget to have a separate title page with your name (Group members), assignment title and …**
* **Do not forget to include the question and questions’ number.**
* **You need to send the text of your queries, and a screenshot which clearly shows the execution of your commands and the results. (No need to show all rows).**

We are going to work with **Adventurework** database. Therefore, open **Adventurework** database as your default database. Do not forget to use the SQL standards.

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| **#** | **Question** | **Mark** | **Table** |
| 1 | **Delete, Restore Database, Retrieve data.**  Delete Adventureworks and create it again (Restore).  Show the first and last names of the persons in the Person.Person table. We need the one with the first names staring with ‘Amb’ without any middle name. | 5 | Person.Person |
| 2 | **Update data**   1. Update the person title of Amy Alberts to ‘Ms.’ and Modify the date (modifieddate) to the current date.  * There might be more than one Amy Alberts. Only update the ones without any title. | 5 | Person.Person |
| 3 | **Join tables (TOP 20)**  We need several items from 3 tables.  First, we need First name, Last name and title from Person.person.  Also, we need businessEntityID from Person.BusinessEntity.  And we need the AddressID from person.BusinessEntityAddress.  With a Join query show the needed results. | 10 | Person.person.  Person.BusinessEntity.  person.BusinessEntityAddress. |
| 4 | **Database Diagram**  Use the file uploaded to help you make the diagram.   1. Create a Database diagram for the step 3. 2. Make a database diagram using three tables. | 10 | (PurchaseOrderDetail  Purchasing.Vendor  PurchaseOrderHeader |
| 5 | **Views**  Create a view with only 5 columns. Three columns are (OrderQty, UnitPrice, PurchaseOrderID) from PurchaseOrderDetail table and two columns are (OrderDate, VendorID) from PurchaseOrderHeader table. We need to see only the first 10 Rows.  We need to see what is stored in your virtual table. | 20 | PurchaseOrderHeader  PurchaseOrderDetail |
| 6 | **Trigger**   1. Create a trigger to fire when a row is going to be updated. The trigger must show a message to indicate that an update happened with the update’s date. 2. B) Update all the modified date with the current date and show the results. | 20 | PurchaseOrderDetail |
| 7 | **Case & Join command**  In the sales person’s table, we need to compare the values of last year and recent sale of the sale persons.  If they have sold more than last year, write ‘Need more bonus’. Otherwise, write ‘No bonus’. Name the column as ‘Bonus’  We also need the name of the persons.  Order the result by last name.  The result must be similar to the screen shot below. | 20 | Sales.SalesPerson  Person.Person |
| 8 | Report Format | 10 |  |
|  | SUM | 90 |  |