Final Project – Jo De Leon

DAD-220-J1269

**Task One**

*A close up of text on a black background

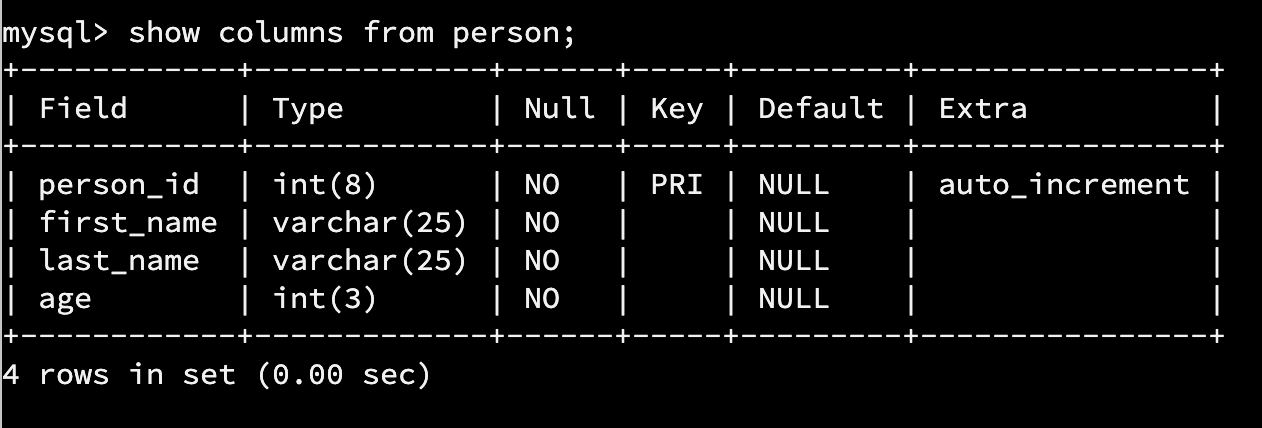
Description automatically generated*

Explanation: *This statement adds new data in the table by inserting a new record using “Insert into table” with new values in each column as indicated in the statement following the datatypes set per column.*

**Task Two**

***A picture containing bottle

Description automatically generated***

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Explanation: *This statement alters a table by using “Alter table”. In this particular change, we added a new column with a datatype of int(3) with a constraint of “Not Null” – meaning that the column must not be empty.*

**Task Three**

**A close up of text on a black background

Description automatically generated**

Explanation: *This statement updates an existing record in a table by using “Update” and “Set” and is used with a constraint. Without a constraint, the update will be applied to all records in the table for the given column.*

**Task Four**

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*A close up of text on a black background

Description automatically generated*

Explanation: *This statement deletes row(s) of record(s) in a table with a condition/constraint.*

*Note: The records in the table were duplicated when I set up the tables prior to doing the tasks. I deleted the duplicated records.*

**Task Five**

**A close up of text on a black background

Description automatically generated**

Explanation: *This statement alters a table by using “Alter table”. In this particular change, we added a new column with a datatype of varchar(10) and may be empty since it is not required using “default NULL”.*

**Task Six**

A close up of text on a black background

Description automatically generated

Explanation: *This statement updates an existing record in a table by using “Update” and “Set” and is used with a constraint. Without a constraint, the update will be applied to all records in the table for the given column.*

**Task Seven**

*A screenshot of a cell phone

Description automatically generated*

Explanation: *This statement updates an existing record in a table by using “Update” and “Set” and is used with a constraint. Without a constraint, the update will be applied to all records in the table for the given column.*

**Task Eight**

*A screenshot of a cell phone

Description automatically generated*

Explanation: *This statement adds new data in the table by inserting a new record using “Insert into table” with new values in each column as indicated in the statement following the datatypes set per column.*

**Task Nine**

*A screenshot of a cell phone

Description automatically generated*

Explanation: *This statement creates a new table in a database by using “Create”. The columns details are set by indicating the column title, datatype, and any constraints it may/should have. A column may also be set as a primary key and may be auto\_incremented.*

**Task Ten**

*A close up of a sign

Description automatically generated*

Explanation: *This statement creates a new table in a database by using “Create”. The columns details are set by indicating the column title, datatype, and any constraints it may/should have. A column may also be set as a primary key and may be auto\_incremented.*

**Task Eleven**

**A screenshot of a cell phone

Description automatically generated**

Explanation: *This statement adds new data in the table by inserting a new record using “Insert into table” with new values in each column as indicated in the statement following the datatypes set per column.*

**Task Twelve**

**A screenshot of a cell phone

Description automatically generated**

Explanation: *This statement adds new data in the table by inserting a new record using “Insert into table” with new values in each column as indicated in the statement following the datatypes set per column.*

**Task Thirteen**

***select s.first\_name as "Sender's first name", s.last\_name as "Sender's last name", r.first\_name as "Receiver's first name", r.last\_name as "Receiver's last name", m.message\_id as "Message ID", m.message as "Message", m.send\_datetime as "Message Timestamp"***

***-> from person s, person r, message m***

***-> where s.person\_id = m.sender\_id and r.person\_id = m.receiver\_id and s.first\_name = "Michael" and s.last\_name = "Phelps";***

**A screenshot of a cell phone

Description automatically generated**

Explanation: *This statement outputs data using “Select” based on the conditions set by using “Where”. “As” is used to rename the column for the output of data from multiple tables.*

**Task Fourteen**

***select count(message.message\_id) as 'Count of messages', person.person\_id as 'Person ID', person.first\_name as 'First Name', person.last\_name as 'Last Name'***

***-> from message, person***

***-> where message.sender\_id = person.person\_id***

***-> group by person.person\_id;***

**A screenshot of a cell phone

Description automatically generated**

Explanation: *This statement outputs data using “Select” based on the conditions set by using “Where”. “As” is used to rename the column for the output of data from multiple tables. “Count” is used to count the total number of messages sent by a person. “Group by” is used to ensure that the statement counts the data per row and not just one..*

**Task Fifteen**

***select message.message\_id as 'Message ID', message.message as 'Message', message.send\_datetime as 'Message Timestamp', image.image\_name as 'First Image Name', image.image\_location a***

***s 'First Image Location'***

***-> from message***

***-> inner join message\_image***

***-> on message.message\_id = message\_image.message\_id***

***-> inner join image***

***-> on image.image\_id = message\_image.image\_id***

***-> group by message\_image.message\_id;***

***A screenshot of a computer screen

Description automatically generated***

Explanation: *This statement outputs data using “Select” based on the conditions set by using “Where”. “As” is used to rename the column for the output of data from multiple tables. “Inner join” is used to join columns from multiple tables together.*