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> Transforming data Weekly challenge 3

Congratulations! You passed! Using SQL to clean data Learn basic SQL queries Go to next item Quiz • 45 min Reading: Glossary: Terms and **Review Learning Objectives** 1. A data analyst is analyzing medical data for a health insurance company. The dataset contains billions of rows of 1/1 point Quiz: Weekly challenge 3 data. Which of the following tools will handle the data most efficiently? Submit your assignment Try again A spread Receive grade Your grade 88.88% To Pass 80% or higher Orrect We keep your highest score 2. Your manager tasks you with analyzing a dataset and visually inspecting the data. Upon initial inspection you 1 / 1 point realize that this is a small dataset. What tool should you use to analyze the data? Word processor ○ csv O SQL **⊘** Correct 3. A data analyst creates many new tables in their company's database. When the project is complete, the analyst 1 / 1 point wants to remove the tables so they don't clutter the database. What SQL commands can they use to delete the tables? DROP TABLE IF EXISTS O CREATE TABLE IF NOT EXISTS ○ UPDATE O INSERT INTO **⊘** Correct **4.**You are working with a database table that contains invoice data. The table includes columns for *invoice_id* and *billing_state*. You want 1/1 to remove duplicate entries for billing_state and sort the results by invoice_id. You write the SQL query below. Add a DISTINCT clause that will remove duplicate entries from the billing_state column. NOTE: The three dots (...) indicate where to add the clause. 1 SELECT DISTINCT billing_state 2 FROM invoice 3 ORDER BY invoice_id; Run Reset (Output limit exceeded, 25 of 26 total rows shown) What billing state appears in row 17 of your query result? NOTE: The query index starts at 1 not 0. ○ CA O NV O WI **⊘** Correct The clause <code>DISTINCT billing_state</code> will remove duplicate entries from the <code>billing_state</code> column. The complete query is SELECT DISTINCT billing_state FROM invoice ORDER BY invoice_id. The DISTINCT clause removes duplicate entries from your query result. The billing state AZ appears in row 17 of your query result. 5. You are working with a database table that contains customer data. The table includes columns about customer location such as city, 1/1 state, country, and postal_code. You want to find what state names are greater than 3 characters. You write the SQL query below. Add a LENGTH function that will return any state names that are greater than 3 characters long. NOTE: The three dots (...) indicate where to add the clause. 1 SELECT * 2 FROM customer 3 WHERE LENGTH(state) > 3; Run | fax | email | support_rep_id | 46 | Hugh | O'Reilly | None | 3 Chatham Street | Dublin | Dublin | Ireland | None | +353 01 6792424 | None | hughoreilly@apple.ie | What state is in row 1 of your query result? (Hint: you will have to scroll to the right with your mouse or track pad to locate the indicated column.) NOTE: The query index starts at 1 not 0. Ireland O Chile India Dublin The function LENGTH(state) > 3 will return any state names that are greater than 2 characters long. The complete query is SELECT * FROM customer WHERE LENGTH(state) > 3. The LENGTH function counts the number of characters a string contains. The country Ireland is in row 1 of your query result. **6.** In SQL databases, what data type is the value 78.99 an example of? 1/1 point Boolean Integer Float String **⊘** Correct 7. In SQL databases, what function can be used to convert data from one datatype to another? 1 / 1 point SUBSTR CAST ○ LENGTH ○ TRIM **⊘** Correct 8. After joining multiple tables you find your data contains a significant amount of null values. What function can you 1/1 point use to return only the non-null values in a list? ○ TRIM CONCAT COALESCE ○ CAST **⊘** Correct 9. You are working with a database table that contains employee data. The table includes columns about employee location such as city, 0/1 state, country, and postal_code. You use the SUBSTR function to retrieve the first 3 characters of each last_name, and use the AS point command to store the result in a new column called *new_last_name*. You write the SQL query below. Add a statement to your SQL query that will retrieve the first 3 characters of each *last_name* and store the result in a new column as new_last_name. NOTE: The three dots (...) indicate where to add the statement. NOTE: SUBSTR takes in three arguments being column, starting_index, ending_index 1 SELECT 2 employee_id, 3 SUBSTR(last_name, 1, 3) AS new_last_name 4 FROM 5 employee 6 ORDER BY 7 postal_code | employee_id | new_last_name | 8 | Cal 7 | Kin 2 | Edw 4 | Par 3 | Pea 6 | Mit 5 | Joh 1 | Ada What employee ID number is in row 8 of your query result? NOTE: The query index starts at 1 not 0. O 7 O 1 O 3 Please review the video on string variables in SQL <a>C.

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