

Assignment - SQL [Major]

Grading Parameter	Marks
Table Design	10
Data Insertion	10
Query Execution	10
Data Normalization	10
Data Population	10
Total	50

Q1) Create a table “**STATION** ” to store information about weather observation stations:

ID	Number	Primary key
CITY	CHAR(20)	
STATE	CHAR(2)	
LAT_N	Number	
LONG_W	Number	

Q2) Insert the following records into the table:

ID	CITY	STATE	LAT_N	LONG_W
13	PHOENIX	AZ	33	112
44	DENVER	CO	40	105
66	CARIBOU	ME	47	68

Q3) Execute a query to look at table **STATION** in undefined order.

Q4) Execute a query to select Northern stations
(**Northern latitude > 39.7**).

Q5) Create another table, '**STATS**', to store normalized temperature and precipitation data:

Column	Data type	Remark
ID	Number	ID must match with some ID from the STATION table(so name & location will be known).
MONTH	Number	The range of months is between (1 and 12)
TEMP_F	Number	Temperature is in Fahrenheit degrees, Ranging between (-80 and 150)
RAIN_I	Number	Rain is in inches, Ranging between (0 and 100)

There will be no Duplicate **ID** and **MONTH** combination.

Q6) Populate the table **STATS** with some statistics for **January** and **July**:

ID	MONTH	TEMP_F	RAIN_I
13	1	57.4	.31
13	7	91.7	5.15
44	1	27.3	.18
44	7	74.8	2.11
66	1	6.7	2.1
66	7	65.8	4.52

Q7) Execute a query to display temperature stats (from the **STATS** table) for each city (from the **STATION** table).

Q8) Execute a query to look at the table **STATS**, ordered by month and greatest rainfall, with columns rearranged. It should also show the corresponding cities.

Q9) Execute a query to look at temperatures for **July** from table **STATS**, lowest temperatures first, picking up **city name** and **latitude**.

Q10) Execute a query to show **MAX** and **MIN** temperatures as well as average rainfall for each city.

Q11) Execute a query to display each city's monthly temperature in **Celsius** and rainfall in **Centimeter**.

Q12) Update all rows of table **STATS** to compensate for faulty rain gauges known to read 0.01 inches low.

Q13) Update **Denver's July** temperature reading as **74.9**.

Steps To submit an SQL assignment.

Step 1: Organize Your Work

Before you start, ensure that you have completed the SQL assignment and have screenshots of each query's output ready.

Step 2: Create a New Word Document

- 1) Open Microsoft Word or any word processing software.
- 2) Create a new document and give it a suitable title, such as **"SQL Assignment Submission - (Your Name)"**

Step 3: Add Headers and Question Numbers

- 1) Insert a header at the top of the page containing your name, E-mail, course name, and assignment title.
- 2) Begin each assignment question with a clear label or question number to distinguish them.

Step 4: Add Screenshots of Queries and Outputs for each question in the assignment:

- 1) Type the question number and description.
- 2) Take a screenshot of your SQL query.
- 3) Paste the screenshot into the Word document.
- 4) Take a screenshot of the query output (result set).
- 5) Paste the screenshot of the output below the query screenshot.

Step 5: Formatting and Alignment

- 1) Format the text and images for clarity and neatness.
- 2) Ensure that screenshots are clear and readable. Resize images if necessary.
- 3) Align the screenshots and text properly for each question.

Step 6: Review Your Document

- 1) Review the document to make sure all questions, queries, and output screenshots are correctly arranged.
- 2) Double-check for any typos or formatting issues.

Step 7: Save Your Document

- 1) Click on the "**File**" menu in Word.
- 2) Select "**Save As**."
- 3) Choose a location on your computer where you want to save the document.
- 4) Enter a file name for the document and select "**Save**."

Step 8: Convert to PDF

Now, let's convert your Word document into a PDF file.

- 1) If you have Microsoft Word with a "Save As PDF" option:
 - In the "**File**" menu, select "**Save As**."
 - Choose a location to save the PDF file.
 - In the "**Save as type**" dropdown, select "**PDF**."
 - Click "**Save**."

2) If you don't have the "**Save As PDF**" option:

- Open your Word document.
- Click "**File**" > "**Print**."
- Choose a PDF printer or select "**Microsoft Print to PDF**."
- Click "**Print**" and choose a location to save the PDF.

Step 9: Upload and Submit

- 1)** Visit your assignment submission platform or email your instructor, depending on the submission method.
- 2)** Locate the option to upload your assignment.
- 3)** Upload the PDF file of your assignment.

Step 10: Confirm Submission

After uploading, make sure to confirm that your assignment has been successfully submitted.

Following these steps will ensure you create a well-organized submission of your SQL assignment.

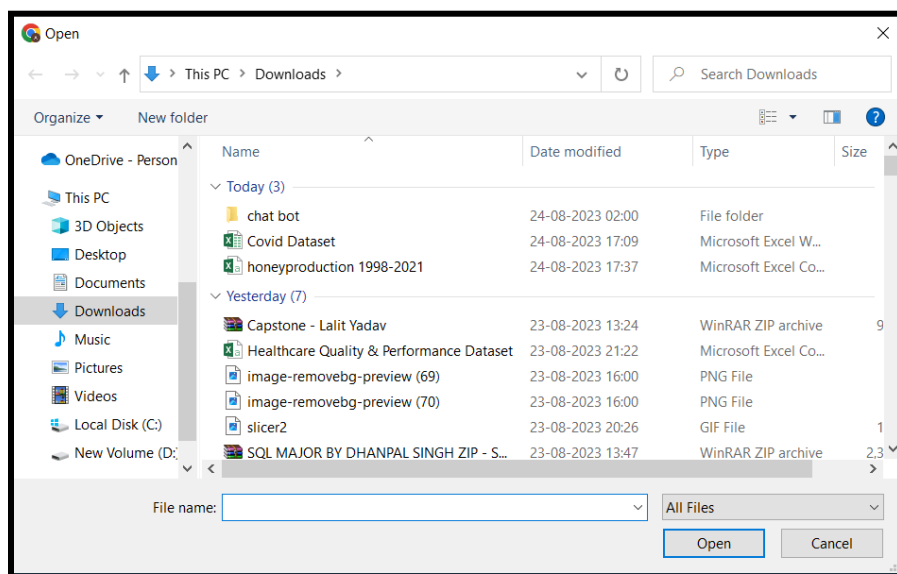
How To Zip Your File & Submit Assignments

Step 1: Open the [Ezyzip Website](#) on your Web Browser

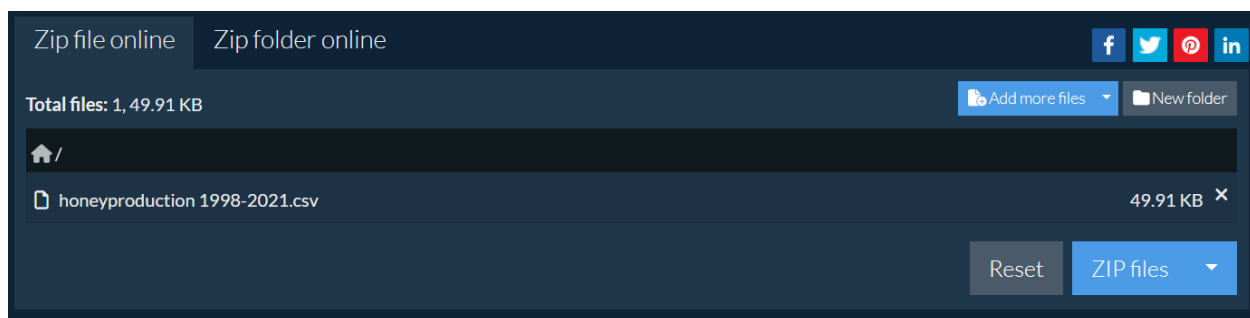
Step 2: Click on “Select files to archive”



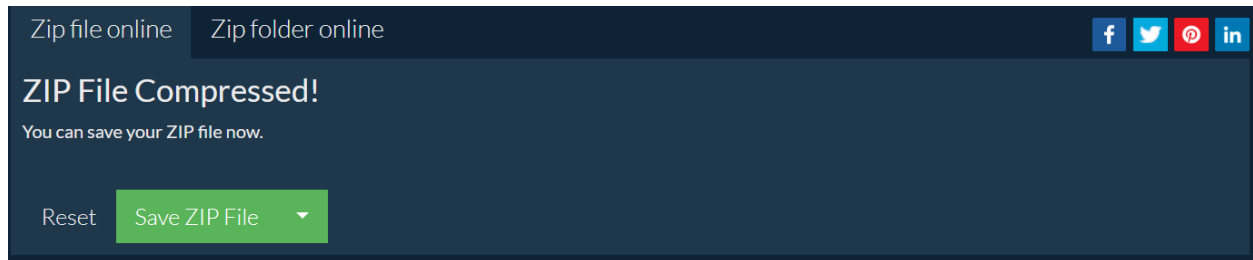
Step 3: Select Your Assignment File From Its Location To Upload



Step 4: Once The Upload Is Done, Zip The file by clicking on “ZIP files”



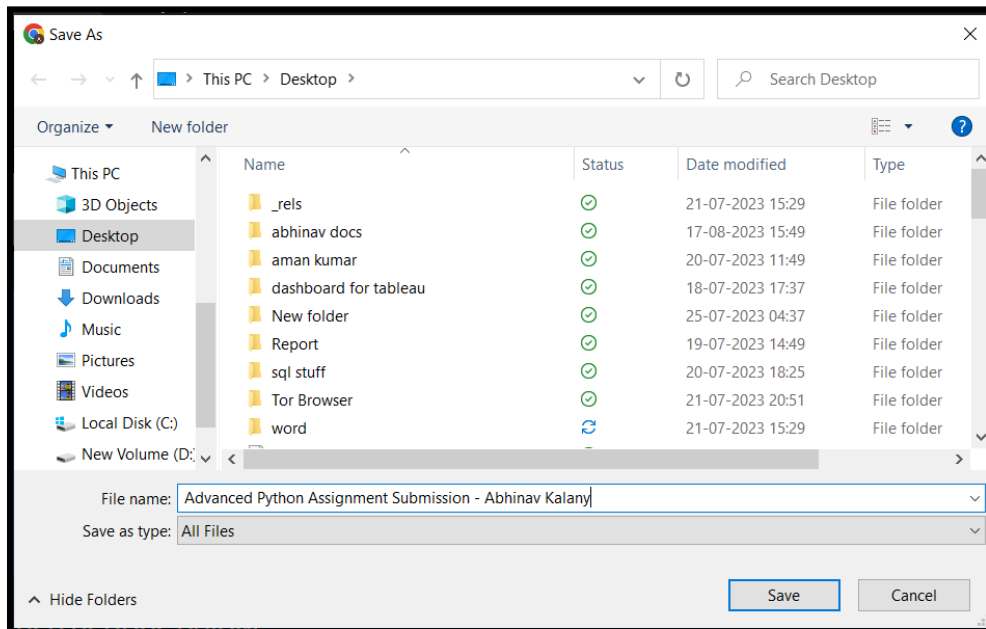
Step 5: Once The ZIP File Is Compressed Click on Save ZIP File



Step 6: Name This Zip File While Saving Into Your Local folder

→ **Name Format:**

"(Assignment name)Assignment Submission - (Your Name)"



Step 7: Once Saved, Submit This ZIP File On Your Skillacademy Assignment Submission Portal