

A screenshot of a dark-themed code editor, likely Visual Studio Code, displaying a Python script named `dateentry.py`. The script uses SQLite and Tkinter to manage expenses. It includes functions for listing all expenses and viewing details for a selected expense. The code is annotated with line numbers from 1 to 37.

```
1 import datetime
2 import sqlite3
3 from tkcalendar import DateEntry
4
5 from tkinter import*
6 import tkinter.messagebox as mb
7 import tkinter.ttk as ttk
8
9
10 connector = sqlite3.connect("Expense Tracker.db")
11 cursor = connector.cursor()
12
13 connector.execute(
14     "CREATE TABLE IF NOT EXISTS ExpenseTracker (ID INTEGER PRIMARY KEY AUTOINCREMENT NOT NULL, date DATETIME, Payee TEXT, Description TEXT, Amount REAL)"
15 )
16 connector.commit()
17
18
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20
21 def list_all_expenses():
22     global connector, table
23
24     table.delete(*table.get_children())
25
26     all_data = connector.execute('SELECT * FROM ExpenseTracker')
27     data = all_data.fetchall()
28
29     for values in data:
30         table.insert('', END, values=values)
31
32 def view_expense_details():
33     global table
34     global date, payee, desc, amnt, MOP
35
36     if not table.selection():
37         mb.showerror('No expense selected', 'Please select an expense from the table to view its details')
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```


A screenshot of a Windows desktop environment. In the foreground, a code editor window is open, displaying Python code for managing an expense tracker database. The code includes functions for removing individual expenses, all expenses, and adding new expenses, along with database connection logic. The code editor interface shows tabs for 'READEMIT.md' and 'import datetime.py'. The background shows a taskbar with various pinned icons, including Microsoft Edge, File Explorer, and other productivity tools. The system tray at the bottom right shows the date as 24-11-2025 and the time as 15:04.

```
File Edit Selection View Go Run terminal Help ⏎ → Q Search C:\> Users > USER > import datetime.py add another expense
61 def remove_expense():
62     connector.execute('DELETE FROM ExpenseTracker WHERE ID=%d' % values[0])
63
64     connector.commit()
65
66     list_all_expenses()
67     mb.showinfo('Record deleted successfully!', 'The record you wanted to delete has been deleted successfully')
68
69 def remove_all_expenses():
70     surely = mb.askyno('Are you sure?', 'Are you sure that you want to delete all the expense items from the database.', icon = 'warning')
71
72     if surely:
73         table.delete(*table.get_children())
74
75         connector.execute('DELETE FROM ExpenseTracker')
76         connector.commit()
77
78         clear_fields()
79         list_all_expenses()
80         mb.showinfo('All Expenses deleted', 'All the expenses were successfully deleted')
81     else:
82         mb.showinfo('Ok then', 'The task was aborted and no expense was deleted')
83
84 def add_another_expense():
85     global date, payee, desc, amnt, MOP
86
87     global connector
88
89     if not date.get() or not payee.get() or not desc.get() or not amnt.get() or not MOP.get():
90         mb.showerr('Fields empty!', 'Please fill all the missing fields before pressing the add button!')
91
92     else:
93         connector.execute(
94             'INSERT INTO ExpenseTracker (Date, Payee, Description, Amount, ModeOfPayment) VALUES (?, ?, ?, ?, ?)',
95             (date.get_date(), payee.get(), desc.get(), amnt.get(), MOP.get())
96         )
97         connector.commit()
98
99     clear_fields()
```

```
File Edit Selection View Go Run Terminal Help ← → Q Search
EXPLORER
... README.md import datetime.py Profiles
C:\> Users > User\ > import datetime.py edit.expense
94 def add_another_expense():
95     list_all_expenses()
96     nb.showinfo('Expense added', 'The expense whose details you just entered has been added to the database.')
97
98 def edit_expense():
99     global table
100
101     def edit_existing_expense():
102         global date, amt, desc, payee, MOP
103         global connector, table
104
105         current_selected_expense = table.item(table.focus())
106         contents = current_selected_expense['values']
107
108         connector.execute("UPDATE ExpenseTracker SET Date = ?, Description = ?, Amount = ?, ModeOfPayment = ? WHERE ID = ?",
109                         (date.get_date(), payee.get(), desc.get(), amt.get(), MOP.get(), contents[0]))
110         connector.commit()
111
112         clear_fields()
113         list_all_expenses()
114
115         nb.showinfo('Data edited', 'We have updated the data and stored in the database as you wanted')
116         edit_btn.destroy()
117         return
118
119     if not table.selection():
120         nb.showerror('No expense selected!', 'You have not selected any expense in the table for us to edit; please do that!')
121         return
122
123     view_expense_details()
124
125     edit_btn = Button(data_entry_frame, text = 'edit expense', font = edit_btn_font, width = 30,
126                      bg = lib_bttn_bg, command = edit_existing_expense)
127     edit_btn.place(x = 10, y = 395)
128
129 def selected_expense_to_words():
130     global table
```

The screenshot shows a dark-themed code editor window. The title bar includes 'File Edit Selection View Go Run terminal Help' and a search bar. The left sidebar has 'EXPLORER' and 'NO FOLDER OPENED'. A message says 'You have not yet opened a folder.' with a 'Open Folder' button. Below it, a note says 'Opening a folder will close all currently open editors. To keep them open, add a folder instead.' The main area contains Python code for expense management:

```
143     def selected_expense_to_words():
144         if not table.selection():
145             mb.showerror('No expense selected!', 'Please select an expense from the table for us to read')
146             return
147
148         current_selected_expense = table.item(table.focus())
149         values = current_selected_expense['values']
150
151         message = f'Your expense can be read like. \n" you paid {values[4]} to {values[2]} for {values[1]} via {values[5]}'
152         mb.showinfo('Here\'s how to read your expense', message)
153
154     def expense_to_words_before_adding():
155         global date, desc, amt, payee, MOP
156
157         if not date or not desc or not amt or not payee or not MOP:
158             mb.showerror('Incomplete data', 'The data is incomplete, meaning fill all the fields first!')
159
160             message = f'Your expense can be read like.\n" you paid {amt.get()} to {payee.get()} for {desc.get()} on {date.get_date()} via {MOP.get()}'"
161             add_question = mb.askyesno("Read your record like .", f'{message}\n\nShould I add it to the database .')
162
163             if add_question:
164                 add_another_expense()
165             else:
166                 mb.showinfo('Ok', 'Please take your time to add this record')
167
168             dataentryframe_bg = 'red'
169             buttons.frame_bg = 'tomato'
170             h1b_btn_bg = 'indianred'
171
172             l1b_font = ('Georgia', 14)
173             entry_font = 'times 14 bold'
174             h1b_font = ('Gill Sans MT', 14)
175
176
177
178
179
```

The status bar at the bottom shows 'Ln 175, Col 1 Spaces: 4 UIT-8 CR/LF [] Python 3.13.7' and a system tray with icons for battery, signal, and date/time.

The screenshot shows a dark-themed code editor window with the following details:

- File Bar:** File, Edit, Selection, View, Go, Run, terminal, Help.
- Search Bar:** Q Search
- Explorer Bar:** NO FOLDER OPENED, Open Folder (highlighted in blue), Open Outline, Open Timeline.
- Code Area:** A Python script titled "Expense Tracker". The code uses the Tkinter library to create a window with frames for date entry, payee, description, amount, and a tree view.

```
180: root = Tk()
181: root.title('PythonGeeks Expense Tracker')
182: root.geometry('1280x800')
183: root.resizable(0,0)
184: 
185: desc = StringVar()
186: aamt = DoubleVar()
187: payee = StringVar()
188: MOP = StringVar(value = 'Cash')
189: 
190: 
191: data_entry_frame = Frame(root, bg = dataentry_frame_bg)
192: data_entry_frame.place(x=0, y=0, relheight=0.95, relwidth=0.25)
193: 
194: buttons_frame = Frame(root, bg = buttons_frame_bg)
195: buttons_frame.place(relx=0.25, rely=0.05, relwidth=0.25, relheight=0.25)
196: 
197: tree_frame = Frame(root)
198: tree_frame.place(relx=0.25, rely=0.26, relwidth=0.75, relheight=0.74)
199: 
200: 
201: 
202: 
203: 
204: 
205: 
206: 
207: Label(data_entry_frame, text = 'Date (M/DD/YY) :', font=lbl_font,bg=dataentry_frame_bg).place(x=10,y=230)
208: dateEntryEntry(data_entry_frame,date=datetime.datetime.now().date()),font=entry_font)
209: dateEntryEntry(data_entry_frame,date=datetime.datetime.now().date()),font=entry_font)
210: 
211: Entry(data_entry_frame,font=entry_font,width=11, textvariable=payee).place(x=10,y=260)
212: 
213: Entry(data_entry_frame,font=entry_font,width=11, textvariable=desc).place(x=10,y=100)
214: 
215: Entry(data_entry_frame,font=entry_font,width=11, textvariable=aamt).place(x=10,y=180)
216: Entry(data_entry_frame,font=entry_font ,width=14, textvariable=MOP).place(x=100,y=100)
```

- Status Bar:** Line 211, Col 1, Spaces: 4, UFT-8, CR/LF, Python, 3.13.7, 15:05, ENG, IN, 24-11-2025.

The screenshot shows a Microsoft Visual Studio Code interface with the following details:

- File Bar:** File, Edit, Selection, View, Go, Run, Terminal, Help.
- Search Bar:** Q Search.
- Explorer Bar:** EXPLORE, NO FOLDER OPENED, Open Folder.
- Code Editor:** The main editor area displays Python code for a graphical user interface (GUI) using Tkinter. The code includes imports for `datetime` and `ttk`, defines various frames and buttons for managing expenses, and sets up a treeview for displaying expense details.
- Status Bar:** In 248, Col 1, Spaces: 4, UTF-8, CR/LF, Python, 3.13.7, 15:00, 21-Jun-2023.
- Sidebar:** OUTLINE, TIMELINE.
- Bottom Icons:** Air Pollution, Tomorrow, Search, Home, Help, etc.

```
C:\Users\USER>py import datetime.py
217 Label(data_entry_frame, text="Mode of payment:", font=lbl_font, bg=dataentry_frame_bg).place(x=10,y=318)
218 ddt=OptionMenu(data_entry_frame, *dp, "Cash", "Cheque", "Credit card", "Debit card", "Paytm", "Google pay", "Razor pay")
219 ddt.place(x=160,y=305)
220 ddi.configure(width=10,font=entry_font)

221
222
223 Button(data_entry_frame, text="Add expense", command=add_another_expense, font=btn_font, width=30,
224 | bg=hb_bttn_bg).place(x=10, y=495)
225 Button(data_entry_frame, text="Convert to words before adding", font=btn_font, width=30, bg=hb_bttn_bg).place(x=10,y=450)

226
227
228 Button(buttons_frame, text="Delete Expense", font=btn_font, width=25, bg=hb_bttn_bg, command=remove_expense).place(x=30, y=5)
229
230 Button(buttons_frame, text="Clear Fields in dataEntry Frame", font=btn_font, width=25, bg=hb_bttn_bg,
231 | command=clear_fields).place(x=35, y=5)
232
233 Button(buttons_frame, text="Delete All Expenses", font=btn_font, width=25, bg=hb_bttn_bg, command=remove_all_expenses).place(x=640, y=5)
234
235 Button(buttons_frame, text="View Selected Expense's Details", font=btn_font, width=25, bg=hb_bttn_bg,
236 | command=view_expense_details).place(x=30, y=65)
237
238 Button(buttons_frame, text="Edit Selected Expense", font=btn_font, width=25, bg=hb_bttn_bg).place(x=355, y=65)
239
240 Button(buttons_frame, text="Convert Expense to a sentence", font=btn_font, width=25, bg=hb_bttn_bg,
241 | command=selected_expense_to_words).place(x=640, y=65)
242
243
244 table = ttk.Treeview(tree_frame, selectmode=BRIDGE, columns=("ID", "Date", "Payee", "Description", "Amount", "Mode of Payment"))
245
246 X_Scroller = Scrollbar(tree_frame, orient=HORIZONTAL, command=table.xview)
247 Y_Scroller = Scrollbar(tree_frame, orient=VERTICAL, command=table.yview)
248 X_Scroller.pack(side=BOTTOM, fill=X)
249 Y_Scroller.pack(side=RIGHT, fill=Y)
250
251 table.config(yscrollcommand=Y_Scroller.set, xscrollcommand=X_Scroller.set)
252
253 table.heading("ID", text="S No.", anchor= CENTER)
```

The screenshot shows a dark-themed Python IDE interface. The top bar includes standard menu items like File, Edit, Selection, View, Go, Run, terminal, Help, and a search bar. The left sidebar has an Explorer section with a message: "NO FOLDER OPENED" and "You have not yet opened a folder. Opening a folder will close all currently open editors. To keep them open, add a folder instead." Below this is an Outline section and a Timeline section. The main area displays a Python script named `import datetime.py`. The script contains code for creating a tree view and a table view, both with scrollbars, and a main loop for a Tkinter application. The status bar at the bottom shows file information (Ln 272, Col 16), spaces (Spaces: 4), encoding (UTF-8), and a timestamp (15:05 24-11-2025). The taskbar at the bottom includes icons for various applications like File Explorer, Task Manager, and a weather widget showing "Air Very poor Now".

```
File Edit Selection View Go Run terminal Help ⏎ → Q Search ... NO FOLDER OPENED import datetime.py Profiles C:\Users>USER> import datetime.py > ... 241 | command=selected.expense.to_words).place(x=640, y=65) 242 | 243 | 244 | table = ttk.Treeview(tree_frame, selectmode=BROWSE, columns=('ID', 'Date', 'Payee', 'Description', 'Amount', 'Mode of Payment')) 245 | X_Scroller = Scrollbar(tree_frame, orient=HORIZONTAL, command=table.xview) 246 | Y_Scroller = Scrollbar(tree_frame, orient=VERTICAL, command=table.yview) 247 | X_Scroller.pack(side=BOTTOM, fill=x) 248 | Y_Scroller.pack(side=RIGHT, fill=y) 249 | 250 | table.config(yscrollcommand=Y_Scroller.set, xscrollcommand=X_Scroller.set) 251 | 252 | table.heading('ID', text='S No.', anchor= CENTER) 253 | table.heading('Date', text='Date', anchor= CENTER) 254 | table.heading('Payee', text='Payee', anchor= CENTER) 255 | table.heading('Description', text='Description', anchor= CENTER) 256 | table.heading('Amount', text='Amount', anchor= CENTER) 257 | table.heading('Mode of payment', text='Mode of Payment', anchor= CENTER) 258 | 259 | table.column('#0', width=0, stretch=NO) 260 | table.column('#1', width=50, stretch=NO) 261 | table.column('#2', width=90, stretch=NO) 262 | table.column('#3', width=150, stretch=NO) 263 | table.column('#4', width=120, stretch=NO) 264 | table.column('#5', width=325, stretch=NO) 265 | table.column('#6', width=135, stretch=NO) 266 | table.column('#7', width=125, stretch=NO) 267 | 268 | table.place(relx=0, rely=0, relheight=1, relwidth=1) 269 | 270 | list_all_expenses() 271 | root.update() 272 | root.mainloop()
```

