

```

In [1]: import pymysql
import pandas as pd

# Database Connection Details
db_config = {
    "host": "localhost",
    "user": "root",
    "password": "Manisha@123",
    "database": "healthcare_db"
}

try:
    # Establish connection
    connection = pymysql.connect(**db_config)
    cursor = connection.cursor()

    # Create database if not exists (healthcare_db should already exist, but just in case)
    cursor.execute("CREATE DATABASE IF NOT EXISTS healthcare_db")
    # Use the healthcare_db database
    cursor.execute("USE healthcare_db")

    # Creating the healthcare_data table
    create_table_query = """
CREATE TABLE IF NOT EXISTS healthcare_data (
    Name VARCHAR(255),
    Age INT,
    Gender VARCHAR(10),
    Blood_Type VARCHAR(5),
    Medical_Condition VARCHAR(255),
    Date_of_Admission DATE,
    Doctor VARCHAR(255),
    Hospital VARCHAR(255),
    Insurance_Provider VARCHAR(255),
    Billing_Amount DECIMAL(15, 2),
    Room_Number INT,
    Admission_Type VARCHAR(50),
    Discharge_Date DATE,
    Medication VARCHAR(255),
    Test_Results VARCHAR(50)
);
"""
    # Execute the table creation query
    cursor.execute(create_table_query)
    print("Table healthcare_data successfully created in healthcare_db database")

except pymysql.MySQLError as err:
    print(f"Error: {err}")
finally:
    if connection:
        cursor.close()
        connection.close()
        print("MySQL connection closed")

```

Table healthcare_data successfully created in healthcare_db database
MySQL connection closed

```

In [5]: import pymysql
import pandas as pd

# Load dataset
file_path = r'HealthCare_data.csv'
data = pd.read_csv(file_path)

# Database Connection Details
db_config = {
    "host": "localhost",
    "user": "root",
    "password": "Manisha@123",
    "database": "healthcare_db"
}

# Establish the connection
connection = pymysql.connect(**db_config)
cursor = connection.cursor()

# Prepare the insert query
insert_query = """
INSERT INTO healthcare_data (
    Name, Age, Gender, Blood_Type, Medical_Condition, Date_of_Admission, Doctor, Hospital,
    Insurance_Provider, Billing_Amount, Room_Number, Admission_Type, Discharge_Date, Medication, Test_R
VALUES (%s, %s, %s, %s, %s, %s, %s, %s, %s, %s, %s, %s, %s, %s, %s);
"""

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# Inserting each row into the MySQL DB
for row in data.itertuples(index=False, name=None):
    try:
        cursor.execute(insert_query, row)
    except pymysql.MySQLError as err:
        print(f"Error inserting row {row}: {err}")
        continue

# Commit transaction
connection.commit()
print("Data inserted successfully")

# Close the connection
connection.close()

```

Error inserting row ('Bobby Jackson', 30, 'Male', 'B-', 'Cancer', '31/01/2024', 'Matthew Smith', 'Sons and Mille
r', 'Blue Cross', 18856.28131, 328, 'Urgent', '02/02/2024', 'Paracetamol', 'Normal'): (1292, "Incorrect date val
ue: '31/01/2024' for column 'Date_of_Admission' at row 1")

Error inserting row ('Leslie TerRy', 62, 'Male', 'A+', 'Obesity', '20/08/2019', 'Samantha Davies', 'Kim Inc', 'M
edicare', 33643.32729, 265, 'Emergency', '26/08/2019', 'Ibuprofen', 'Inconclusive'): (1292, "Incorrect date valu
e: '20/08/2019' for column 'Date_of_Admission' at row 1")

Error inserting row ('DaNNY sMiTH', 76, 'Female', 'A-', 'Obesity', '22/09/2022', 'Tiffany Mitchell', 'Cook PLC',
'Aetna', 27955.09608, 205, 'Emergency', '07/10/2022', 'Aspirin', 'Normal'): (1292, "Incorrect date value: '22/09
/2022' for column 'Date_of_Admission' at row 1")

Error inserting row ('andrew waTtS', 28, 'Female', '0+', 'Diabetes', '18/11/2020', 'Kevin Wells', 'Hernandez Rog
ers and Vang', 'Medicare', 37909.78241, 450, 'Elective', '18/12/2020', 'Ibuprofen', 'Abnormal'): (1292, "Incorr
ect date value: '18/11/2020' for column 'Date_of_Admission' at row 1")

Error inserting row ('adriENNE bELL', 43, 'Female', 'AB+', 'Cancer', '19/09/2022', 'Kathleen Hanna', 'White-Whit
e', 'Aetna', 14238.31781, 458, 'Urgent', '09/10/2022', 'Penicillin', 'Abnormal'): (1292, "Incorrect date value:
'19/09/2022' for column 'Date_of_Admission' at row 1")

Error inserting row ('EMILY JOHNSon', 36, 'Male', 'A+', 'Asthma', '20/12/2023', 'Taylor Newton', 'Nunez-Humphrey
' , 'UnitedHealthcare', 48145.11095, 389, 'Urgent', '24/12/2023', 'Ibuprofen', 'Normal'): (1292, "Incorrect date
value: '20/12/2023' for column 'Date_of_Admission' at row 1")

Error inserting row ('edwArD EDWaRDs', 21, 'Female', 'AB-', 'Diabetes', '03/11/2020', 'Kelly Olson', 'Group Midd
leton', 'Medicare', 19580.87234, 389, 'Emergency', '15/11/2020', 'Paracetamol', 'Inconclusive'): (1292, "Incorre
ct date value: '03/11/2020' for column 'Date_of_Admission' at row 1")

Error inserting row ('CHRISTInA MARTinez', 20, 'Female', 'A+', 'Cancer', '28/12/2021', 'Suzanne Thomas', 'Powell
Robinson and Valdez', 'Cigna', 45820.46272, 277, 'Emergency', '07/01/2022', 'Paracetamol', 'Inconclusive'): (12
92, "Incorrect date value: '28/12/2021' for column 'Date_of_Admission' at row 1")

Error inserting row ('JASmINE aGuIlLaR', 82, 'Male', 'AB+', 'Asthma', '01/07/2020', 'Daniel Ferguson', 'Sons Rich
and', 'Cigna', 50119.22279, 316, 'Elective', '14/07/2020', 'Aspirin', 'Abnormal'): (1292, "Incorrect date value:
'01/07/2020' for column 'Date_of_Admission' at row 1")

Error inserting row ('ChRISTopher BerG', 58, 'C', 'AB-', 'Cancer', '23/05/2021', 'Heather Day', 'Padilla-Walker'
' , 'UnitedHealthcare', 19784.63106, 249, 'Elective', '22/06/2021', 'Paracetamol', 'Inconclusive'): (1292, "Incorr
ect date value: '23/05/2021' for column 'Date_of_Admission' at row 1")

Error inserting row ('mIchElLe daniELs', 72, 'Male', '0+', 'Cancer', '19/04/2020', 'John Duncan', 'Schaefer-Port
er', 'Medicare', 12576.79561, 394, 'Urgent', '22/04/2020', 'Paracetamol', 'Normal'): (1292, "Incorrect date valu
e: '19/04/2020' for column 'Date_of_Admission' at row 1")

Error inserting row ('aaRon MARtiNeZ', 38, 'Female', 'A-', 'Hypertension', '13/08/2023', 'Douglas Mayo', 'Lyons-
Blair', 'Medicare', 7999.58688, 288, 'Urgent', '05/09/2023', 'Lipitor', 'Inconclusive'): (1292, "Incorrect date
value: '13/08/2023' for column 'Date_of_Admission' at row 1")

Error inserting row ('connOR HANsEn', 75, 'Female', 'A+', 'Diabetes', '12/12/2019', 'Kenneth Fletcher', 'Powers
Miller, and Flores', 'Cigna', 43282.28336, 134, 'Emergency', '28/12/2019', 'Penicillin', 'Abnormal'): (1292, "In
correct date value: '12/12/2019' for column 'Date_of_Admission' at row 1")

Error inserting row ('rObErT bAuer', 68, 'Female', 'AB+', 'Asthma', '22/05/2020', 'Theresa Freeman', 'Rivera-Gut
ierrez', 'UnitedHealthcare', 33207.70663, 309, 'Urgent', '19/06/2020', 'Lipitor', 'Normal'): (1292, "Incorrect d
ate value: '22/05/2020' for column 'Date_of_Admission' at row 1")

Error inserting row ('bR00kE brady', 44, 'Female', 'AB+', 'Cancer', '08/10/2021', 'Roberta Stewart', 'Morris-Are
llano', 'UnitedHealthcare', 40701.59923, 182, 'Urgent', '13/10/2021', 'Paracetamol', 'Normal'): (1292, "Incorrec
t date value: '08/10/2021' for column 'Date_of_Admission' at row 1")

Error inserting row ('MS. nAtAlIE gAMble', 46, 'Female', 'AB-', 'Obesity', '01/01/2023', 'Maria Dougherty', 'Cli
ne-Williams', 'Blue Cross', 12263.35743, 465, 'Elective', '11/01/2023', 'Aspirin', 'Inconclusive'): (1292, "Inco
rrect date value: '01/01/2023' for column 'Date_of_Admission' at row 1")

Error inserting row ('haley perkins', 63, 'Female', 'A+', 'Arthritis', '23/06/2020', 'Erica Spencer', 'Cervantes
-Wells', 'UnitedHealthcare', 24499.8479, 114, 'Elective', '14/07/2020', 'Paracetamol', 'Normal'): (1292, "Incorr
ect date value: '23/06/2020' for column 'Date_of_Admission' at row 1")

Error inserting row ('mRS. jamiE cAMPBELL', 38, 'Male', 'AB-', 'Obesity', '08/03/2020', 'Justin Kim', 'Torres, a
nd Harrison Jones', 'Cigna', 17440.46544, 449, 'Urgent', '02/04/2020', 'Paracetamol', 'Abnormal'): (1292, "Incor
rect date value: '08/03/2020' for column 'Date_of_Admission' at row 1")

Error inserting row ('LuKE BuRgEss', 34, 'Female', 'A-', 'Hypertension', '04/03/2021', 'Justin Moore Jr.', 'Hous
ton PLC', 'Blue Cross', 18843.02302, 260, 'Elective', '14/03/2021', 'Aspirin', 'Abnormal'): (1292, "Incorrect da
te value: '04/03/2021' for column 'Date_of_Admission' at row 1")

Error inserting row ('dANIEL schmIdt', 63, 'Male', 'B+', 'Asthma', '15/11/2022', 'Denise Galloway', 'Hammond Ltd
' , 'Cigna', 23762.20358, 465, 'Elective', '22/11/2022', 'Penicillin', 'Normal'): (1292, "Incorrect date value: '
15/11/2022' for column 'Date_of_Admission' at row 1")

Error inserting row ('tIMOTHY burNs', 67, 'Female', 'A-', 'Asthma', '28/06/2023', 'Krista Smith', 'Jones LLC', 'B
lue Cross', 42.51458855, 115, 'Elective', '02/07/2023', 'Aspirin', 'Normal'): (1292, "Incorrect date value: '28
/06/2023' for column 'Date_of_Admission' at row 1")

Error inserting row ('ChRISToPHER BRiGHT', 48, 'Male', 'B+', 'Asthma', '21/01/2020', 'Gregory Smith', 'Williams-
Davis', 'Aetna', 17695.91162, 295, 'Urgent', '09/02/2020', 'Lipitor', 'Normal'): (1292, "Incorrect date value: '
21/01/2020' for column 'Date_of_Admission' at row 1")

Error inserting row ('KathRYn StewArt', 58, 'Female', '0+', 'Arthritis', '12/05/2022', 'Vanessa Newton', 'Clark-
Mayo', 'Aetna', 5998.102908, 327, 'Urgent', '10/06/2022', 'Lipitor', 'Inconclusive'): (1292, "Incorrect date val

ue: '12/05/2022' for column 'Date_of_Admission' at row 1")

Error inserting row ('dR. EilEE n thomPsoN', 59, 'Male', 'A+', 'Asthma', '02/08/2021', 'Donna Martinez MD', 'and Sons Smith', 'Aetna', 25250.05243, 119, 'Urgent', '12/08/2021', 'Lipitor', 'Inconclusive'): (1292, "Incorrect date value: '02/08/2021' for column 'Date_of_Admission' at row 1")

Error inserting row ('PAUL hEndERsOn', 72, 'Female', 'AB+', 'Hypertension', '15/05/2020', 'Stephanie Kramer', 'Wilson Group', 'Medicare', 33211.29542, 109, 'Emergency', '08/06/2020', 'Paracetamol', 'Inconclusive'): (1292, "Incorrect date value: '15/05/2020' for column 'Date_of_Admission' at row 1")

Error inserting row ('PeTER fiTzgeRaLd', 73, 'Male', 'AB+', 'Obesity', '15/05/2020', 'Angela Contreras', 'Garner-Bowman', 'Medicare', 19746.83201, 162, 'Urgent', '20/05/2020', 'Aspirin', 'Abnormal'): (1292, "Incorrect date value: '15/05/2020' for column 'Date_of_Admission' at row 1")

Error inserting row ('cathy sMaLL', 51, 'Female', '0-', 'Asthma', '23/12/2023', 'Wendy Glenn', 'Brown, and Jones Weaver', 'Blue Cross', 26786.52956, 401, 'Elective', '19/01/2024', 'Ibuprofen', 'Normal'): (1292, "Incorrect date value: '23/12/2023' for column 'Date_of_Admission' at row 1")

Error inserting row ('Mr. KenNEth MoORE', 34, 'Female', 'A+', 'Diabetes', '21/06/2022', 'James Ellis', 'Serrano-Dixon', 'UnitedHealthcare', 18834.80134, 157, 'Emergency', '30/06/2022', 'Lipitor', 'Abnormal'): (1292, "Incorrect date value: '21/06/2022' for column 'Date_of_Admission' at row 1")

Error inserting row ('MaRy hUNter', 38, 'Female', '0-', 'Hypertension', '03/01/2021', 'Jared Bruce Jr.', 'Gardner-Miller', 'Cigna', 32643.29935, 223, 'Emergency', '16/01/2021', 'Penicillin', 'Normal'): (1292, "Incorrect date value: '03/01/2021' for column 'Date_of_Admission' at row 1")

Error inserting row ('JoSHUA OLiVer', 63, 'Female', 'B+', 'Hypertension', '03/10/2023', 'Brandy Mitchell', 'Guerrero-Boone', 'Aetna', 5767.011054, 293, 'Elective', '12/10/2023', 'Paracetamol', 'Abnormal'): (1292, "Incorrect date value: '03/10/2023' for column 'Date_of_Admission' at row 1")

Error inserting row ('THOMAS MartInEZ', 34, 'Male', 'B-', 'Asthma', '18/08/2019', 'Jacob Huynh', 'Hart Ltd', 'Cigna', 47909.12881, 371, 'Urgent', '01/09/2019', 'Ibuprofen', 'Inconclusive'): (1292, "Incorrect date value: '18/08/2019' for column 'Date_of_Admission' at row 1")

Error inserting row ('JAmES pattERson', 23, 'Female', 'A+', 'Arthritis', '03/11/2019', 'Kristina Frazier', 'Cruz-Santiago', 'UnitedHealthcare', 25835.32359, 108, 'Urgent', '29/11/2019', 'Penicillin', 'Abnormal'): (1292, "Incorrect date value: '03/11/2019' for column 'Date_of_Admission' at row 1")

Error inserting row ('WillIAM cOOPER', 78, 'Male', 'AB-', 'Arthritis', '18/05/2023', 'John Hartman', 'Group Duncan', 'Medicare', 17993.2262, 245, 'Elective', '15/06/2023', 'Penicillin', 'Normal'): (1292, "Incorrect date value: '18/05/2023' for column 'Date_of_Admission' at row 1")

Error inserting row ('Erin oRTEga', 43, 'Male', 'AB-', 'Cancer', '24/05/2023', 'Heather Garcia', 'Lopez-Phillips', 'Medicare', 21185.95353, 494, 'Elective', '03/06/2023', 'Ibuprofen', 'Normal'): (1292, "Incorrect date value: '24/05/2023' for column 'Date_of_Admission' at row 1")

Error inserting row ('NicOLE RodriGUEz', 30, 'Female', 'AB+', 'Diabetes', '17/01/2020', 'Lynn Young', 'Poole Inc', 'Blue Cross', 8408.949354, 285, 'Emergency', '10/02/2020', 'Lipitor', 'Normal'): (1292, "Incorrect date value: '17/01/2020' for column 'Date_of_Admission' at row 1")

Error inserting row ('DAViD AndERSON', 25, 'Female', 'AB+', 'Asthma', '07/01/2021', 'Emma Allison', 'Sons and Cox', 'Medicare', 45453.41855, 228, 'Elective', '26/01/2021', 'Lipitor', 'Abnormal'): (1292, "Incorrect date value: '07/01/2021' for column 'Date_of_Admission' at row 1")

Error inserting row ('DeNise ToRRes', 33, 'Male', 'AB+', 'Diabetes', '14/10/2019', 'Laura Myers', 'LLC Martin', 'Aetna', 4397.776995, 481, 'Urgent', '19/10/2019', 'Paracetamol', 'Inconclusive'): (1292, "Incorrect date value: '14/10/2019' for column 'Date_of_Admission' at row 1")

Error inserting row ('CasSAndRA Robinson', 26, 'Female', 'B-', 'Hypertension', '19/12/2021', 'Travis Parsons', 'Espinoza-Stone', 'Aetna', 9380.325968, 212, 'Urgent', '16/01/2022', 'Ibuprofen', 'Normal'): (1292, "Incorrect date value: '19/12/2021' for column 'Date_of_Admission' at row 1")

Error inserting row ('NiCOLE LUcErO', 70, 'Female', '0-', 'Diabetes', '12/03/2022', 'Christine Johnson', 'and Garcia Morris Cunningham', 'Cigna', 48290.69341, 113, 'Emergency', '29/03/2022', 'Lipitor', 'Abnormal'): (1292, "Incorrect date value: '12/03/2022' for column 'Date_of_Admission' at row 1")

Error inserting row ('PAmela fERnanDeZ', 57, 'Female', 'B-', 'Obesity', '17/01/2021', 'Emily Taylor', 'Walton-Meyer', 'Medicare', 32973.94083, 272, 'Urgent', '29/01/2021', 'Penicillin', 'Abnormal'): (1292, "Incorrect date value: '17/01/2021' for column 'Date_of_Admission' at row 1")

Error inserting row ('chRiSTOPHer LEe', 74, 'Female', 'B-', 'Hypertension', '15/09/2021', 'William Reynolds', 'PLC Young', 'Cigna', 49943.2785, 478, 'Emergency', '05/10/2021', 'Lipitor', 'Normal'): (1292, "Incorrect date value: '15/09/2021' for column 'Date_of_Admission' at row 1")

Error inserting row ('ThomAS morsE', 81, 'Male', 'A+', 'Hypertension', '27/01/2020', 'Jennifer Carter', 'Meadows Group', 'Cigna', 35633.95545, 196, 'Urgent', '09/02/2020', 'Aspirin', 'Normal'): (1292, "Incorrect date value: '27/01/2020' for column 'Date_of_Admission' at row 1")

Error inserting row ('Mr. eRiC Lane', 49, 'Female', 'A-', 'Asthma', '24/06/2022', 'Matthew Thomas', 'and Howell Brooks, Rogers', 'Cigna', 25966.32861, 418, 'Elective', '18/07/2022', 'Paracetamol', 'Normal'): (1292, "Incorrect date value: '24/06/2022' for column 'Date_of_Admission' at row 1")

Error inserting row ('KATHErINE SMiTH', 26, 'Female', 'AB+', 'Obesity', '09/06/2021', 'Mary Logan', 'and McClure White Boone', 'UnitedHealthcare', 21784.44507, 410, 'Urgent', '01/07/2021', 'Paracetamol', 'Normal'): (1292, "Incorrect date value: '09/06/2021' for column 'Date_of_Admission' at row 1")

Error inserting row ('pAUL wILLiAmS', 81, 'Female', 'AB-', 'Cancer', '23/08/2020', 'Kristin Martinez', 'Gates Brown, and Stuart', 'Medicare', 42684.55888, 328, 'Urgent', '08/09/2020', 'Penicillin', 'Abnormal'): (1292, "Incorrect date value: '23/08/2020' for column 'Date_of_Admission' at row 1")

Error inserting row ('LYNn MaRtinez', 65, 'Male', '0+', 'Cancer', '12/10/2022', 'Daniel Murphy', 'Group Armstrong', 'Medicare', 45585.88656, 300, 'Emergency', '02/11/2022', 'Penicillin', 'Normal'): (1292, "Incorrect date value: '12/10/2022' for column 'Date_of_Admission' at row 1")

Error inserting row ('chRiSToPHER CHaPmAN', 31, 'Female', '0+', 'Hypertension', '01/12/2021', 'Emily Patterson', 'Ltd Schwartz', 'Cigna', 29615.44186, 211, 'Elective', '09/12/2021', 'Paracetamol', 'Normal'): (1292, "Incorrect date value: '01/12/2021' for column 'Date_of_Admission' at row 1")

Error inserting row ('CHRis fRYe', 58, 'Male', 'A-', 'Diabetes', '04/05/2020', 'Heather Smith', 'Nelson-Phillips', 'Cigna', 36992.27369, 413, 'Urgent', '13/05/2020', 'Aspirin', 'Normal'): (1292, "Incorrect date value: '04/05/2020' for column 'Date_of_Admission' at row 1")

Error inserting row ('kyLE bEnneTT', 22, 'Male', '0+', 'Hypertension', '09/09/2023', 'John Smith', 'Knight and Nguyen, Riggs', 'UnitedHealthcare', 28051.49948, 157, 'Urgent', '23/09/2023', 'Ibuprofen', 'Abnormal'): (1292, "Incorrect date value: '09/09/2023' for column 'Date_of_Admission' at row 1")

Error inserting row ('BRandOn coLLINS', 77, 'Female', '0+', 'Asthma', '19/07/2019', 'Cameron Young', 'Lopez PLC', 'Cigna', 16320.23245, 138, 'Urgent', '29/07/2019', 'Ibuprofen', 'Abnormal'): (1292, "Incorrect date value: '19/07/2019' for column 'Date_of_Admission' at row 1")

Error inserting row ('michael LiU', 30, 'Male', 'AB-', 'Hypertension', '05/04/2024', 'Vicki Nguyen', 'Fernandez

and Phillips, Singh', 'Medicare', 30590.54181, 456, 'Emergency', '22/04/2024', 'Paracetamol', 'Inconclusive'): (1292, "Incorrect date value: '05/04/2024' for column 'Date_of_Admission' at row 1")

Error inserting row ('STepHaNie kEnt', 42, 'Female', 'A-', 'Cancer', '15/06/2019', 'Mary Moss', 'Beck-Galloway', 'Aetna', 14681.01636, 234, 'Emergency', '05/07/2019', 'Ibuprofen', 'Abnormal'): (1292, "Incorrect date value: '15/06/2019' for column 'Date_of_Admission' at row 1")

Error inserting row ('Jesse BaNks', 67, 'Female', 'AB+', 'Cancer', '29/10/2022', 'Alexander Garcia', 'Decker Glover, and Christensen', 'Aetna', 21879.53191, 492, 'Urgent', '20/11/2022', 'Penicillin', 'Inconclusive'): (1292, "Incorrect date value: '29/10/2022' for column 'Date_of_Admission' at row 1")

Error inserting row ('PeGGY LEe', 24, 'Female', 'A-', 'Obesity', '08/04/2022', 'Patrick Burns', 'Nelson Walker Myers, and', 'UnitedHealthcare', 6767.634397, 180, 'Elective', '13/04/2022', 'Lipitor', 'Abnormal'): (1292, "Incorrect date value: '08/04/2022' for column 'Date_of_Admission' at row 1")

Error inserting row ('TAmARA hErNandez', 84, 'Female', 'B-', 'Asthma', '17/08/2023', 'Kayla Powers', 'Mitchell-Navarro', 'Cigna', 19973.46293, 250, 'Elective', '11/09/2023', 'Ibuprofen', 'Inconclusive'): (1292, "Incorrect date value: '17/08/2023' for column 'Date_of_Admission' at row 1")

Error inserting row ('mR. DAVID pIERce Md', 73, 'Female', 'A-', 'Hypertension', '05/11/2023', 'Julia Cox', 'Group Delgado', 'UnitedHealthcare', 14362.31449, 296, 'Emergency', '07/11/2023', 'Paracetamol', 'Inconclusive'): (1292, "Incorrect date value: '05/11/2023' for column 'Date_of_Admission' at row 1")

Error inserting row ('beThaNY MoOrE', 55, 'Female', 'A+', 'Cancer', '09/04/2023', 'Penny Pruitt', 'and Montes Graves, Thomas', 'Cigna', 10300.65731, 330, 'Emergency', '21/04/2023', 'Paracetamol', 'Normal'): (1292, "Incorrect date value: '09/04/2023' for column 'Date_of_Admission' at row 1")

Error inserting row ('MIChael MILLS', 23, 'Male', 'O-', 'Hypertension', '21/09/2022', 'Mrs. Lori Hurst PhD', 'Hall-Bentley', 'Aetna', 37951.66491, 405, 'Emergency', '25/09/2022', 'Ibuprofen', 'Inconclusive'): (1292, "Incorrect date value: '21/09/2022' for column 'Date_of_Admission' at row 1")

Error inserting row ('kyle Wiley', 40, 'Female', 'AB-', 'Cancer', '21/01/2021', 'Stephen Carr', 'Taylor-Nguyen', 'Aetna', 6733.990947, 300, 'Urgent', '06/02/2021', 'Ibuprofen', 'Normal'): (1292, "Incorrect date value: '21/01/2021' for column 'Date_of_Admission' at row 1")

Error inserting row ('jACQuELINE JoRdaN', 51, 'Male', 'O+', 'Hypertension', '10/07/2020', 'Jacob Daniel', 'Hunter-Grant', 'Aetna', 17839.74565, 306, 'Elective', '20/07/2020', 'Paracetamol', 'Abnormal'): (1292, "Incorrect date value: '10/07/2020' for column 'Date_of_Admission' at row 1")

Error inserting row ('ASHLeY guTIERReZ', 83, 'Male', 'AB+', 'Obesity', '06/11/2019', 'Tyler Braun', 'Miller-Lawson', 'Aetna', 24637.09006, 333, 'Elective', '22/11/2019', 'Paracetamol', 'Inconclusive'): (1292, "Incorrect date value: '06/11/2019' for column 'Date_of_Admission' at row 1")

Error inserting row ('Kim ScOtT', 63, 'Male', 'A-', 'Asthma', '07/04/2024', 'Cindy Ellis', 'Scott-Kelly', 'UnitedHealthcare', 39723.16605, 244, 'Emergency', '04/05/2024', 'Ibuprofen', 'Inconclusive'): (1292, "Incorrect date value: '07/04/2024' for column 'Date_of_Admission' at row 1")

Error inserting row ('tRAVIs carTeR', 18, 'Male', 'A+', 'Cancer', '06/07/2022', 'Megan Hahn', 'Moss and Ferguson, Baker', 'UnitedHealthcare', 48407.38629, 325, 'Emergency', '18/07/2022', 'Aspirin', 'Normal'): (1292, "Incorrect date value: '06/07/2022' for column 'Date_of_Admission' at row 1")

Error inserting row ('LARRY rodgeRs', 23, 'Female', 'B-', 'Hypertension', '03/08/2022', 'Eric Kelly', 'and Mason Smith Chase', 'Cigna', 5517.393642, 113, 'Elective', '10/08/2022', 'Aspirin', 'Inconclusive'): (1292, "Incorrect date value: '03/08/2022' for column 'Date_of_Admission' at row 1")

Error inserting row ('Nancy glOVer', 58, 'Male', 'A-', 'Hypertension', '08/05/2020', 'Jennifer Larson', 'Khan, and Rodriguez Fischer', 'Medicare', 19183.16889, 378, 'Emergency', '01/06/2020', 'Aspirin', 'Abnormal'): (1292, "Incorrect date value: '08/05/2020' for column 'Date_of_Admission' at row 1")

Error inserting row ('JesseIca king', 27, 'Male', 'AB-', 'Cancer', '09/12/2019', 'William Hess', 'Sons Watson and', 'Medicare', 8320.660803, 468, 'Urgent', '21/12/2019', 'Lipitor', 'Abnormal'): (1292, "Incorrect date value: '09/12/2019' for column 'Date_of_Admission' at row 1")

Error inserting row ('ChRiStOPHeR gOnzAleZ', 59, 'Male', 'B+', 'Diabetes', '21/11/2019', 'Patricia Dunn', 'Rhodes-Carey', 'Medicare', 10107.18765, 368, 'Emergency', '08/12/2019', 'Penicillin', 'Abnormal'): (1292, "Incorrect date value: '21/11/2019' for column 'Date_of_Admission' at row 1")

Error inserting row ('jOhN hARTMaN', 27, 'Male', 'B-', 'Hypertension', '07/01/2023', 'Jack Jackson', 'Bullock-Ramsey', 'Cigna', 49402.29837, 263, 'Elective', '27/01/2023', 'Lipitor', 'Inconclusive'): (1292, "Incorrect date value: '07/01/2023' for column 'Date_of_Admission' at row 1")

Error inserting row ('MIChaEL MillEr', 31, 'Male', 'B+', 'Diabetes', '06/02/2024', 'Jonathan Drake', 'Clark Brown, and Myers', 'UnitedHealthcare', 35776.81511, 489, 'Emergency', '10/02/2024', 'Penicillin', 'Normal'): (1292, "Incorrect date value: '06/02/2024' for column 'Date_of_Admission' at row 1")

Error inserting row ('Erica myERS', 19, 'Female', 'A+', 'Arthritis', '30/01/2020', 'Ian Benitez', 'Jackson and Lane, Dillon', 'Medicare', 20227.86373, 241, 'Elective', '12/02/2020', 'Penicillin', 'Normal'): (1292, "Incorrect date value: '30/01/2020' for column 'Date_of_Admission' at row 1")

Error inserting row ('CAROL PaTTERSoN', 29, 'Female', 'O+', 'Cancer', '24/10/2022', 'Jamie Baker', 'Turner Cook, Banks and', 'Blue Cross', 19328.11858, 231, 'Urgent', '07/11/2022', 'Ibuprofen', 'Normal'): (1292, "Incorrect date value: '24/10/2022' for column 'Date_of_Admission' at row 1")

Error inserting row ('JOSe LopEz', 18, 'Male', 'A-', 'Obesity', '09/01/2022', 'Erika Jackson', 'Miles, and Weaver Hudson', 'Aetna', 46956.54573, 377, 'Emergency', '15/01/2022', 'Aspirin', 'Inconclusive'): (1292, "Incorrect date value: '09/01/2022' for column 'Date_of_Admission' at row 1")

Error inserting row ('KEVIN SiMmoNs Jr.', 24, 'Male', 'AB-', 'Cancer', '28/12/2023', 'Amanda Garcia', 'Evans Ltd', 'Cigna', 10709.69039, 407, 'Emergency', '02/01/2024', 'Paracetamol', 'Abnormal'): (1292, "Incorrect date value: '28/12/2023' for column 'Date_of_Admission' at row 1")

Error inserting row ('DuANe HaneY', 27, 'Male', 'AB-', 'Diabetes', '16/09/2021', 'Raven Wong', 'Sons and Schaefer', 'Aetna', 45353.99078, 263, 'Urgent', '14/10/2021', 'Penicillin', 'Abnormal'): (1292, "Incorrect date value: '16/09/2021' for column 'Date_of_Admission' at row 1")

Error inserting row ('JONathAn yaTeS', 57, 'Female', 'AB-', 'Arthritis', '24/07/2023', 'Cynthia Scott', 'Sons Hodges and', 'Aetna', 8451.001758, 135, 'Elective', '11/08/2023', 'Paracetamol', 'Abnormal'): (1292, "Incorrect date value: '24/07/2023' for column 'Date_of_Admission' at row 1")

Error inserting row ('johN THoMaS', 74, 'Female', 'A+', 'Arthritis', '13/11/2021', 'Mark Padilla', 'Simpson-McCall', 'UnitedHealthcare', 29850.87973, 131, 'Emergency', '07/12/2021', 'Paracetamol', 'Inconclusive'): (1292, "Incorrect date value: '13/11/2021' for column 'Date_of_Admission' at row 1")

Error inserting row ('AdriaN BuckLEY', 22, 'Female', 'A-', 'Arthritis', '11/10/2023', 'Julie Ramirez', 'Lin Thompson Wells, and', 'Blue Cross', 42696.52116, 102, 'Urgent', '27/10/2023', 'Penicillin', 'Normal'): (1292, "Incorrect date value: '11/10/2023' for column 'Date_of_Admission' at row 1")

Error inserting row ('apRil SANTIAGo', 33, 'Female', 'B-', 'Diabetes', '30/01/2021', 'Jacob Rich', 'Jones-Scott', 'Cigna', 2305.13914, 249, 'Emergency', '04/02/2021', 'Penicillin', 'Inconclusive'): (1292, "Incorrect date value: '30/01/2021' for column 'Date_of_Admission' at row 1")

Error inserting row ('DIane schultz', 57, 'Male', 'B+', 'Arthritis', '21/11/2021', 'Mark Hartman Jr.', 'Howe-Kelly', 'UnitedHealthcare', 44437.47067, 255, 'Emergency', '05/12/2021', 'Penicillin', 'Inconclusive'): (1292, "Incorrect date value: '21/11/2021' for column 'Date_of_Admission' at row 1")

Error inserting row ('tiMOThY myers', 61, 'Male', 'B+', 'Cancer', '02/03/2024', 'Timothy Baker', 'and Sons Reyes', 'UnitedHealthcare', 29504.38744, 422, 'Urgent', '26/03/2024', 'Ibuprofen', 'Inconclusive'): (1292, "Incorrect date value: '02/03/2024' for column 'Date_of_Admission' at row 1")

Error inserting row ('NICOLE HUGhes', 20, 'Male', '0+', 'Arthritis', '04/12/2020', 'Lori Sanchez', 'Shaw-Young', 'Blue Cross', 34617.78834, 320, 'Emergency', '08/12/2020', 'Ibuprofen', 'Abnormal'): (1292, "Incorrect date value: '04/12/2020' for column 'Date_of_Admission' at row 1")

Error inserting row ('ChAd MorEn0', 67, 'Male', 'AB+', 'Hypertension', '26/08/2020', 'Connie Boyd', 'Inc Skinner', 'Aetna', 46814.0112, 134, 'Urgent', '27/08/2020', 'Penicillin', 'Abnormal'): (1292, "Incorrect date value: '26/08/2020' for column 'Date_of_Admission' at row 1")

Error inserting row ('SeaN jenniNGs', 80, 'Female', 'AB-', 'Diabetes', '12/11/2023', 'James Tucker', 'Clark-Johnson', 'Blue Cross', 20257.54428, 255, 'Elective', '12/12/2023', 'Penicillin', 'Abnormal'): (1292, "Incorrect date value: '12/11/2023' for column 'Date_of_Admission' at row 1")

Error inserting row ('DIANe brAnch', 44, 'Male', '0+', 'Obesity', '30/05/2020', 'Juan Acevedo', 'Perez and Sons', 'Cigna', 22841.36388, 410, 'Emergency', '14/06/2020', 'Aspirin', 'Inconclusive'): (1292, "Incorrect date value: '30/05/2020' for column 'Date_of_Admission' at row 1")

Error inserting row ('cindY OR0zco', 26, 'Female', 'B-', 'Asthma', '12/05/2023', 'Julie Finley', 'Kemp LLC', 'Medicare', 10283.71686, 273, 'Emergency', '10/06/2023', 'Ibuprofen', 'Abnormal'): (1292, "Incorrect date value: '12/05/2023' for column 'Date_of_Admission' at row 1")

Error inserting row ('pAtriCIa MEdiNA', 80, 'Male', 'AB+', 'Cancer', '07/07/2022', 'Miguel Parker', 'LLC Dixon', 'UnitedHealthcare', 1586.476601, 395, 'Emergency', '23/07/2022', 'Ibuprofen', 'Normal'): (1292, "Incorrect date value: '07/07/2022' for column 'Date_of_Admission' at row 1")

Error inserting row ('kayLa padilla', 63, 'Male', 'B-', 'Asthma', '24/09/2020', 'Jermaine Peters', 'and Morales Jennings Cook', 'Aetna', 34774.35113, 152, 'Emergency', '08/10/2020', 'Penicillin', 'Inconclusive'): (1292, "Incorrect date value: '24/09/2020' for column 'Date_of_Admission' at row 1")

Error inserting row ('JUan kLEiN', 58, 'Female', 'B-', 'Arthritis', '19/08/2023', 'Lisa Edwards', 'Group Hood', 'UnitedHealthcare', 24870.10366, 321, 'Emergency', '25/08/2023', 'Ibuprofen', 'Inconclusive'): (1292, "Incorrect date value: '19/08/2023' for column 'Date_of_Admission' at row 1")

Error inserting row ('wILLIAM hILL', 38, 'Female', 'A+', 'Cancer', '16/05/2023', 'Matthew Walker', 'Lindsey Inc', 'Cigna', 39476.94751, 428, 'Elective', '01/06/2023', 'Aspirin', 'Abnormal'): (1292, "Incorrect date value: '16/05/2023' for column 'Date_of_Admission' at row 1")

Error inserting row ('CARL BEst', 60, 'Male', 'B+', 'Hypertension', '22/08/2022', 'Gregory Hansen', 'Ltd Wang', 'Blue Cross', 26062.43432, 482, 'Elective', '07/09/2022', 'Paracetamol', 'Inconclusive'): (1292, "Incorrect date value: '22/08/2022' for column 'Date_of_Admission' at row 1")

Error inserting row ('TInA GriFFin', 49, 'Male', 'B+', 'Cancer', '17/06/2022', 'Jessica Cruz', 'Inc Ford', 'Medicare', 25302.11263, 268, 'Elective', '28/06/2022', 'Penicillin', 'Abnormal'): (1292, "Incorrect date value: '17/06/2022' for column 'Date_of_Admission' at row 1")

Error inserting row ('MR. TYler TAYLOR Phd', 80, 'Male', 'A+', 'Diabetes', '05/11/2022', 'Robert Salazar', 'Dean-Hawkins', 'UnitedHealthcare', 10661.51065, 120, 'Emergency', '25/11/2022', 'Lipitor', 'Abnormal'): (1292, "Incorrect date value: '05/11/2022' for column 'Date_of_Admission' at row 1")

Error inserting row ('TAYLoR howell Dds', 35, 'Female', 'B+', 'Diabetes', '10/09/2021', 'Kyle Patterson', 'Walter PLC', 'Blue Cross', 30358.19458, 318, 'Elective', '18/09/2021', 'Ibuprofen', 'Inconclusive'): (1292, "Incorrect date value: '10/09/2021' for column 'Date_of_Admission' at row 1")

Error inserting row ('mIchAeL MaRTiN', 84, 'Male', 'A+', 'Asthma', '06/09/2022', 'John Summers', 'Sons Horn and', 'Cigna', 23684.52547, 162, 'Urgent', '27/09/2022', 'Ibuprofen', 'Inconclusive'): (1292, "Incorrect date value: '06/09/2022' for column 'Date_of_Admission' at row 1")

Error inserting row ('heatHER mIller', 76, 'Male', 'A+', 'Diabetes', '17/04/2021', 'Scott Grant', 'Powell Ward, and Mercado', 'Aetna', 3908.946568, 428, 'Elective', '10/05/2021', 'Lipitor', 'Inconclusive'): (1292, "Incorrect date value: '17/04/2021' for column 'Date_of_Admission' at row 1")

Error inserting row ('cathERinE gArDnEr', 79, 'Female', 'A-', 'Hypertension', '19/08/2019', 'David Ruiz', 'James Ltd', 'Medicare', 25503.67381, 144, 'Elective', '26/08/2019', 'Lipitor', 'Abnormal'): (1292, "Incorrect date value: '19/08/2019' for column 'Date_of_Admission' at row 1")

Error inserting row ('ANNE THOMPSON', 76, 'Female', '0+', 'Diabetes', '24/03/2024', 'Kyle Smith', 'Kemp-Munoz', 'Aetna', 6312.607691, 226, 'Elective', '14/04/2024', 'Aspirin', 'Abnormal'): (1292, "Incorrect date value: '24/03/2024' for column 'Date_of_Admission' at row 1")

Error inserting row ('TOdd cooPeR', 55, 'Female', 'A+', 'Diabetes', '10/12/2022', 'Jason Price', 'Henderson-Taylor', 'UnitedHealthcare', 21772.3414, 459, 'Elective', '31/12/2022', 'Ibuprofen', 'Normal'): (1292, "Incorrect date value: '10/12/2022' for column 'Date_of_Admission' at row 1")

Error inserting row ('PhILLIP lyOnS', 53, 'Male', 'B-', 'Cancer', '14/09/2022', 'Stephanie Clements', 'Parsons, Hartman Martinez and', 'Blue Cross', 30437.00179, 208, 'Elective', '18/09/2022', 'Aspirin', 'Normal'): (1292, "Incorrect date value: '14/09/2022' for column 'Date_of_Admission' at row 1")

Error inserting row ('MaRk foRD', 18, 'Male', 'B+', 'Asthma', '18/10/2022', 'Steven James', 'Luna Inc', 'UnitedHealthcare', 28837.67705, 227, 'Elective', '11/11/2022', 'Aspirin', 'Abnormal'): (1292, "Incorrect date value: '18/10/2022' for column 'Date_of_Admission' at row 1")

Error inserting row ('maRCUS ZAMoRA', 69, 'Male', '0+', 'Arthritis', '13/11/2021', 'Jeremiah Wolf', 'Hernandez, Ritter and Huffman', 'Cigna', 25425.72786, 115, 'Elective', '21/11/2021', 'Aspirin', 'Normal'): (1292, "Incorrect date value: '13/11/2021' for column 'Date_of_Admission' at row 1")

Error inserting row ('KaTiE hENry', 70, 'Male', 'B+', 'Diabetes', '08/07/2022', 'Roberto Petersen', 'Reed LLC', 'Aetna', 7187.272346, 402, 'Emergency', '25/07/2022', 'Aspirin', 'Normal'): (1292, "Incorrect date value: '08/07/2022' for column 'Date_of_Admission' at row 1")

Error inserting row ('willIAM moRTON', 21, 'Male', 'A+', 'Diabetes', '25/06/2023', 'Christina Hammond', 'Thompson-Walker', 'UnitedHealthcare', 3125.736477, 442, 'Urgent', '11/07/2023', 'Ibuprofen', 'Normal'): (1292, "Incorrect date value: '25/06/2023' for column 'Date_of_Admission' at row 1")

Error inserting row ('KaTRina maRTin', 47, 'Male', 'A-', 'Diabetes', '09/07/2019', 'Patricia Colon', 'Group Nguyen', 'Medicare', 31516.10073, 418, 'Elective', '05/08/2019', 'Penicillin', 'Inconclusive'): (1292, "Incorrect date value: '09/07/2019' for column 'Date_of_Admission' at row 1")

Error inserting row ('HunTeR mckAy', 85, 'Male', 'A-', 'Arthritis', '14/05/2021', 'Dominic Mitchell', 'Newton-White', 'UnitedHealthcare', 40014.76235, 425, 'Emergency', '03/06/2021', 'Aspirin', 'Abnormal'): (1292, "Incorrect date value: '14/05/2021' for column 'Date_of_Admission' at row 1")

Error inserting row ('dWAYNe DAViS', 28, 'Male', '0+', 'Cancer', '15/01/2024', 'Wendy Davis', 'Ltd Thomas', 'Medicare', 40782.92781, 373, 'Elective', '07/02/2024', 'Ibuprofen', 'Abnormal'): (1292, "Incorrect date value: '15/01/2024' for column 'Date_of_Admission' at row 1")

01/2024' for column 'Date_of_Admission' at row 1")
Error inserting row ('sARAH CaLDweLL', 62, 'Male', 'A-', 'Obesity', '30/09/2019', 'Daniel Carson', 'Pierce Ward, Torres and', 'Cigna', 3879.084602, 290, 'Elective', '15/10/2019', 'Aspirin', 'Inconclusive'): (1292, "Incorrect date value: '30/09/2019' for column 'Date_of_Admission' at row 1")
Error inserting row ('DAViD higgInS', 49, 'Female', 'B-', 'Arthritis', '05/03/2021', 'Erin Henderson MD', 'Evans and Hall Schneider', 'Medicare', 24948.47782, 361, 'Emergency', '20/03/2021', 'Penicillin', 'Abnormal'): (1292, "Incorrect date value: '05/03/2021' for column 'Date_of_Admission' at row 1")
Error inserting row ('bRADLEY coMbS', 52, 'Male', 'AB-', 'Hypertension', '14/05/2021', 'Christopher Butler', 'St out-Brown', 'Cigna', 37734.74218, 251, 'Elective', '06/06/2021', 'Penicillin', 'Abnormal'): (1292, "Incorrect date value: '14/05/2021' for column 'Date_of_Admission' at row 1")
Error inserting row ('chrisTiNa SchMitt', 53, 'Male', 'B+', 'Cancer', '08/06/2023', 'Samuel Robles', 'Cruz Ltd', 'UnitedHealthcare', 27360.46189, 231, 'Elective', '05/07/2023', 'Ibuprofen', 'Abnormal'): (1292, "Incorrect date value: '08/06/2023' for column 'Date_of_Admission' at row 1")
Error inserting row ('coLtoN stRONG', 55, 'Male', 'AB-', 'Asthma', '13/05/2022', 'Benjamin Webb', 'Stewart Sons and', 'Aetna', 37405.69653, 212, 'Elective', '20/05/2022', 'Paracetamol', 'Normal'): (1292, "Incorrect date value: '13/05/2022' for column 'Date_of_Admission' at row 1")
Error inserting row ('MARK priCE', 18, 'Male', 'B-', 'Arthritis', '22/09/2022', 'Krystal Fox', 'Hall Roberts and Duarte', 'Medicare', 31485.97316, 440, 'Emergency', '14/10/2022', 'Ibuprofen', 'Normal'): (1292, "Incorrect date value: '22/09/2022' for column 'Date_of_Admission' at row 1")
Error inserting row ('sUZaNnE SchNeIder', 52, 'Male', 'AB-', 'Hypertension', '25/08/2023', 'Bruce Garrett', 'Ramirez-Robinson', 'Medicare', 23737.39932, 414, 'Urgent', '18/09/2023', 'Lipitor', 'Normal'): (1292, "Incorrect date value: '25/08/2023' for column 'Date_of_Admission' at row 1")
Error inserting row ('MiChaEL HURLEY', 67, 'Male', 'AB-', 'Obesity', '02/06/2019', 'Jonathan Watson', 'Garcia, and Bishop Hernandez', 'Aetna', 3326.382675, 424, 'Emergency', '04/06/2019', 'Lipitor', 'Inconclusive'): (1292, "Incorrect date value: '02/06/2019' for column 'Date_of_Admission' at row 1")
Error inserting row ('LIndsEy laMbErt', 82, 'Female', 'A+', 'Hypertension', '19/11/2021', 'Christopher Guerra', 'and Brown Oneal, Shah', 'Medicare', 23067.67217, 307, 'Elective', '12/12/2021', 'Ibuprofen', 'Normal'): (1292, "Incorrect date value: '19/11/2021' for column 'Date_of_Admission' at row 1")
Error inserting row ('reBEcCA PARsONs', 37, 'Female', 'O+', 'Asthma', '02/12/2019', 'Steven Adams', 'Group White', 'Aetna', 8521.214253, 476, 'Elective', '13/12/2019', 'Penicillin', 'Abnormal'): (1292, "Incorrect date value: '02/12/2019' for column 'Date_of_Admission' at row 1")
Error inserting row ('jUdy joHNsoN', 52, 'Female', 'AB-', 'Cancer', '21/08/2020', 'Victoria Patel', 'Hughes and Erickson, Anderson', 'Cigna', 47985.16734, 388, 'Elective', '06/09/2020', 'Penicillin', 'Inconclusive'): (1292, "Incorrect date value: '21/08/2020' for column 'Date_of_Admission' at row 1")
Error inserting row ('TOnyA caMpbell', 37, 'Female', 'B+', 'Asthma', '12/02/2021', 'Louis Bell', 'Lane-Kelly', 'UnitedHealthcare', 25230.24688, 326, 'Elective', '11/03/2021', 'Ibuprofen', 'Inconclusive'): (1292, "Incorrect date value: '12/02/2021' for column 'Date_of_Admission' at row 1")
Error inserting row ('JAMEs Ross', 83, 'Female', 'A+', 'Diabetes', '13/01/2024', 'Michael Baker', 'Cox-Hester', 'Blue Cross', 10352.20849, 394, 'Urgent', '22/01/2024', 'Aspirin', 'Abnormal'): (1292, "Incorrect date value: '13/01/2024' for column 'Date_of_Admission' at row 1")
Data inserted successfully

```
In [3]: #Display 5 rows
data.head()
```

Out[3]:

	name	age	gender	blood_type	medical_condition	date_of_admission	doctor	hospital	insurance_provider	billing_am
0	Bobby JacksOn	30	Male	B-	Cancer	2024-01-31	Matthew Smith	Sons and Miller	Blue Cross	18856.2
1	LesLie TErRy	62	Male	A+	Obesity	2019-08-20	Samantha Davies	Kim Inc	Medicare	33643.3
2	DaNnY sMith	76	Female	A-	Obesity	2022-09-22	Tiffany Mitchell	Cook PLC	Aetna	27955.0
3	andrEw waTtS	28	Female	O+	Diabetes	2020-11-18	Kevin Wells	Hernandez Rogers and Vang,	Medicare	37909.7
4	adRIENNE bELL	43	Female	AB+	Cancer	2022-09-19	Kathleen Hanna	White-White	Aetna	14238.3

```
In [4]: data.tail()
```

Out[4]:

	name	age	gender	blood_type	medical_condition	date_of_admission	doctor	hospital	insurance_provider	billing_
114	LIndsEy laMbErt	82	Female	A+	Hypertension	2021-11-19	Christopher Guerra	and Brown Oneal, Shah	Medicare	23067.
115	reBEcCA PARsONs	37	Female	O+	Asthma	2019-12-02	Steven Adams	Group White	Aetna	8521.
116	jUdy joHNsoN	52	Female	AB-	Cancer	2020-08-21	Victoria Patel	Hughes and Erickson, Anderson	Cigna	47985.
117	TOnyA caMpbell	37	Female	B+	Asthma	2021-02-12	Louis Bell	Lane-Kelly	UnitedHealthcare	25230.
118	JAMEs Ross	83	Female	A+	Diabetes	2024-01-13	Michael Baker	Cox-Hester	Blue Cross	10352.

```
In [15]: print(f"Number of Rows: {data.shape[0]}")
print(f"Number of Columns: {data.shape[1]}")
```

Number of Rows: 119
Number of Columns: 15
The history saving thread hit an unexpected error (OperationalError('attempt to write a readonly database')).History will not be written to the database.

```
In [16]: #information about dataset
data.info()
```

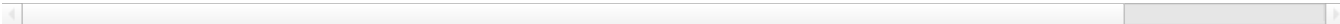
```
<class 'pandas.core.frame.DataFrame'>
RangeIndex: 119 entries, 0 to 118
Data columns (total 15 columns):
#   Column                Non-Null Count  Dtype
---  -
0   Name                   119 non-null    object
1   Age                    119 non-null    int64
2   Gender                 119 non-null    object
3   Blood Type             119 non-null    object
4   Medical Condition      119 non-null    object
5   Date of Admission      119 non-null    object
6   Doctor                 119 non-null    object
7   Hospital               119 non-null    object
8   Insurance Provider     119 non-null    object
9   Billing Amount          119 non-null    float64
10  Room Number            119 non-null    int64
11  Admission Type         119 non-null    object
12  Discharge Date         119 non-null    object
13  Medication             119 non-null    object
14  Test Results           119 non-null    object
dtypes: float64(1), int64(2), object(12)
memory usage: 14.1+ KB
```

```
In [17]: #Checking for null values
data.isnull()
```

Out[17]:

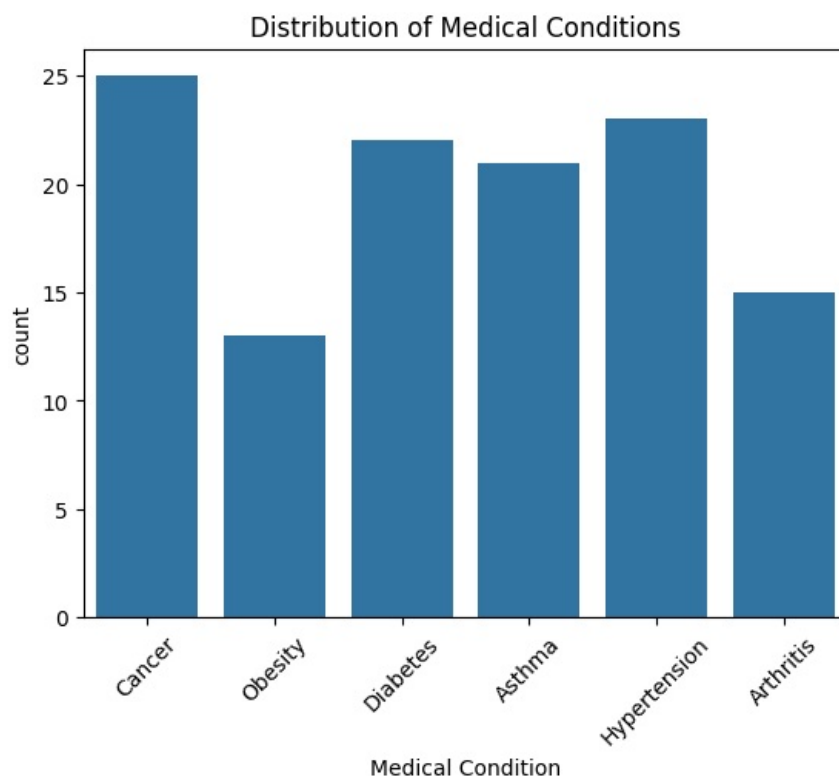
	Name	Age	Gender	Blood Type	Medical Condition	Date of Admission	Doctor	Hospital	Insurance Provider	Billing Amount	Room Number	Admission Type	Discharge Date	N
0	False	False	False	False	False	False	False	False	False	False	False	False	False	
1	False	False	False	False	False	False	False	False	False	False	False	False	False	
2	False	False	False	False	False	False	False	False	False	False	False	False	False	
3	False	False	False	False	False	False	False	False	False	False	False	False	False	
4	False	False	False	False	False	False	False	False	False	False	False	False	False	
...	
114	False	False	False	False	False	False	False	False	False	False	False	False	False	
115	False	False	False	False	False	False	False	False	False	False	False	False	False	
116	False	False	False	False	False	False	False	False	False	False	False	False	False	
117	False	False	False	False	False	False	False	False	False	False	False	False	False	
118	False	False	False	False	False	False	False	False	False	False	False	False	False	

119 rows × 15 columns



```
In [20]: import seaborn as sns
import matplotlib.pyplot as plt

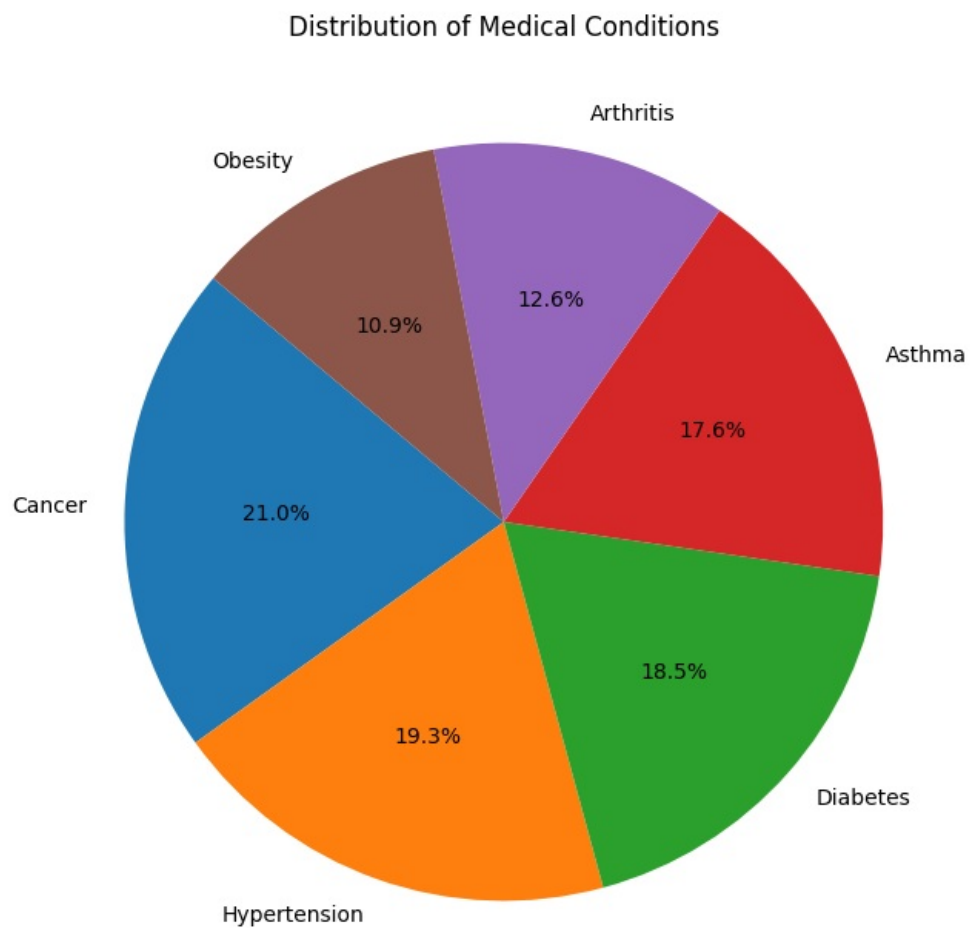
# Visualize the distribution of the "Medical Condition" column
sns.countplot(x='Medical Condition', data=data)
plt.title('Distribution of Medical Conditions')
plt.xticks(rotation=45) # Rotate x-axis labels if they are long
plt.show()
```

```
In [22]: # 1. Pie Chart: Displays the distribution of the target in percentage

import matplotlib.pyplot as plt

# Pie chart of Medical Condition distribution
target_counts = data['Medical Condition'].value_counts()
plt.figure(figsize=(8, 8))
plt.pie(target_counts, labels=target_counts.index, autopct='%1.1f%%', startangle=140)
plt.title('Distribution of Medical Conditions')
plt.show()
```



```
In [23]: # 2. Multiple Histograms: Plots histograms for Age and Billing Amount side-by-side
```



```

import seaborn as sns
import matplotlib.pyplot as plt

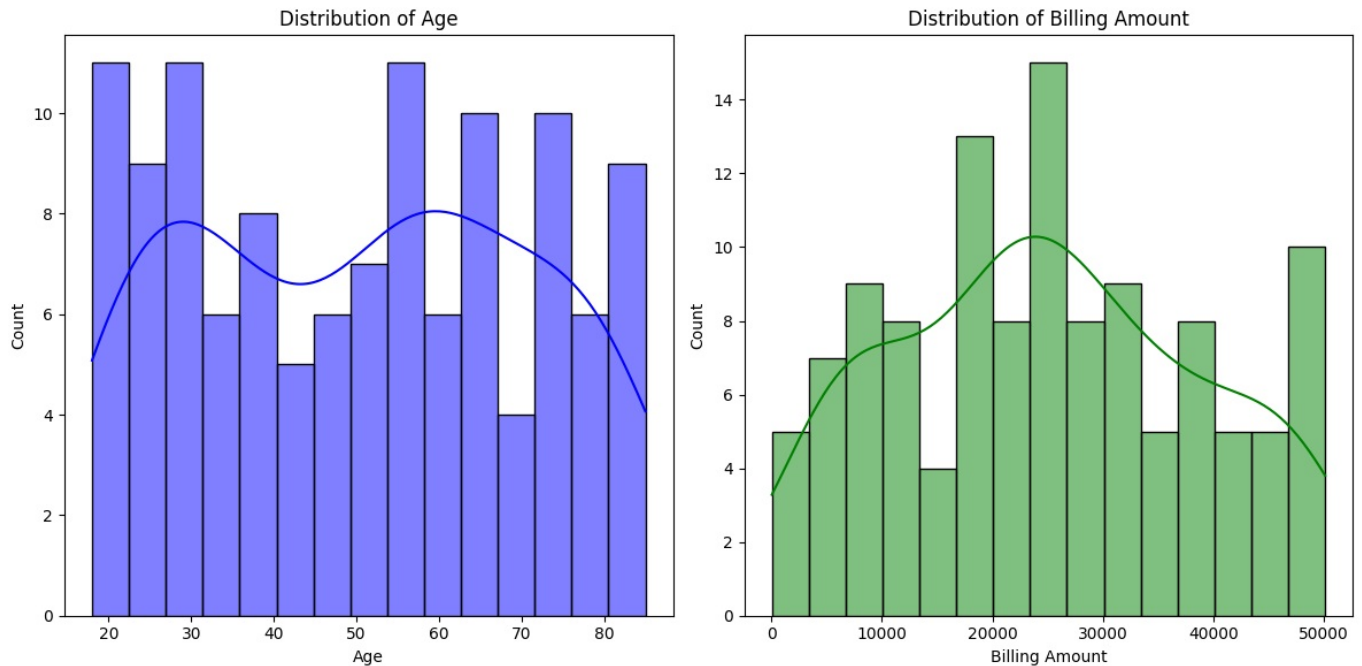
# Create side-by-side histograms for Age and Billing Amount
plt.figure(figsize=(12, 6))

plt.subplot(1, 2, 1) # First subplot
sns.histplot(data['Age'], kde=True, bins=15, color='blue')
plt.title('Distribution of Age')

plt.subplot(1, 2, 2) # Second subplot
sns.histplot(data['Billing Amount'], kde=True, bins=15, color='green')
plt.title('Distribution of Billing Amount')

plt.tight_layout()
plt.show()

```

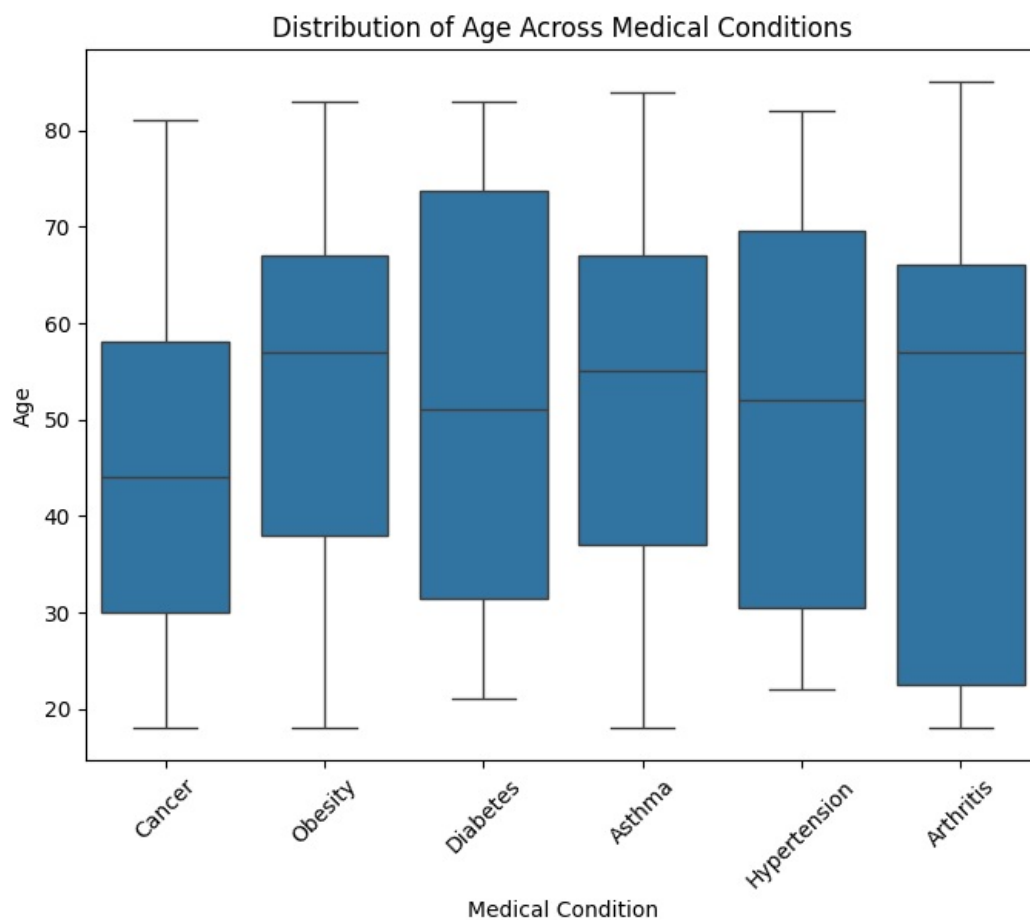


In [24]: # 3. Box Plot: Shows the distribution of Age across different target classes

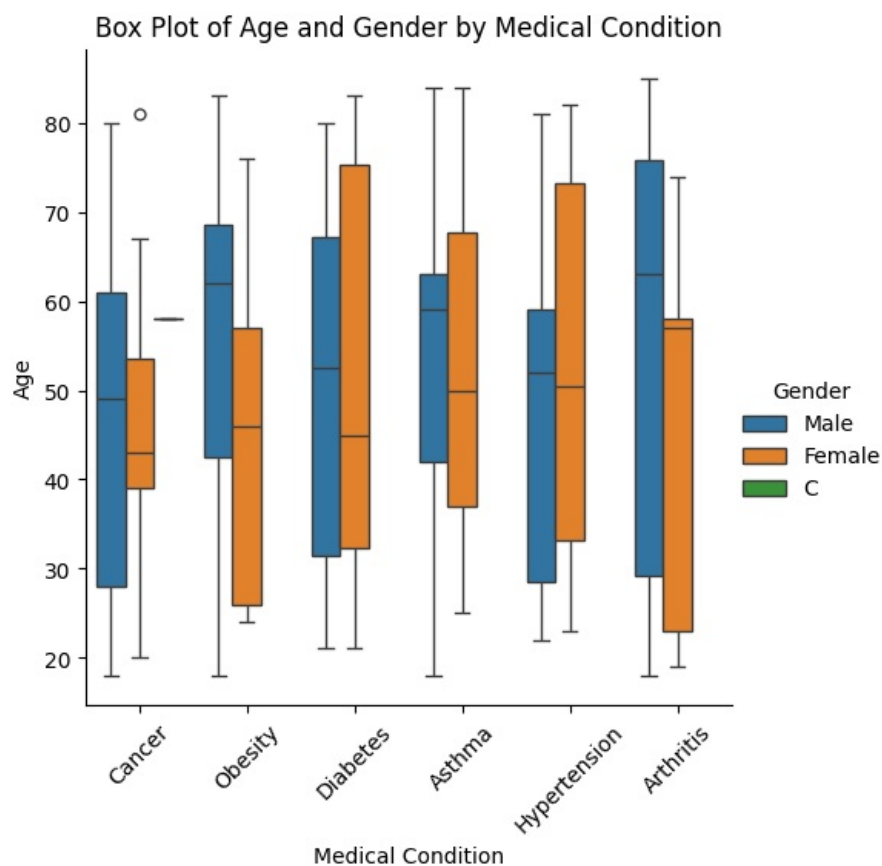
```

plt.figure(figsize=(8, 6))
sns.boxplot(x='Medical Condition', y='Age', data=data)
plt.title('Distribution of Age Across Medical Conditions')
plt.xticks(rotation=45)
plt.show()

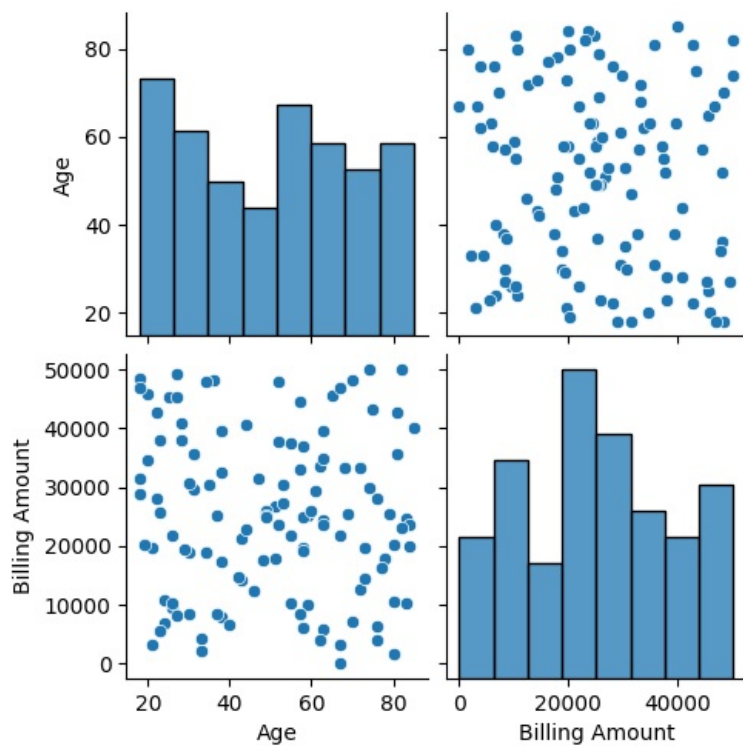
```



```
In [26]: # 5. Catplot: Plots a box plot of Age and Gender by target
sns.catplot(x='Medical Condition', y='Age', hue='Gender', kind='box', data=data)
plt.title('Box Plot of Age and Gender by Medical Condition')
plt.xticks(rotation=45)
plt.show()
```



```
In [27]: # 6. Pairplot: Plots pairwise relationships for numeric columns
sns.pairplot(data[['Age', 'Billing Amount']]) # You can add other numeric columns if needed
plt.show()
```

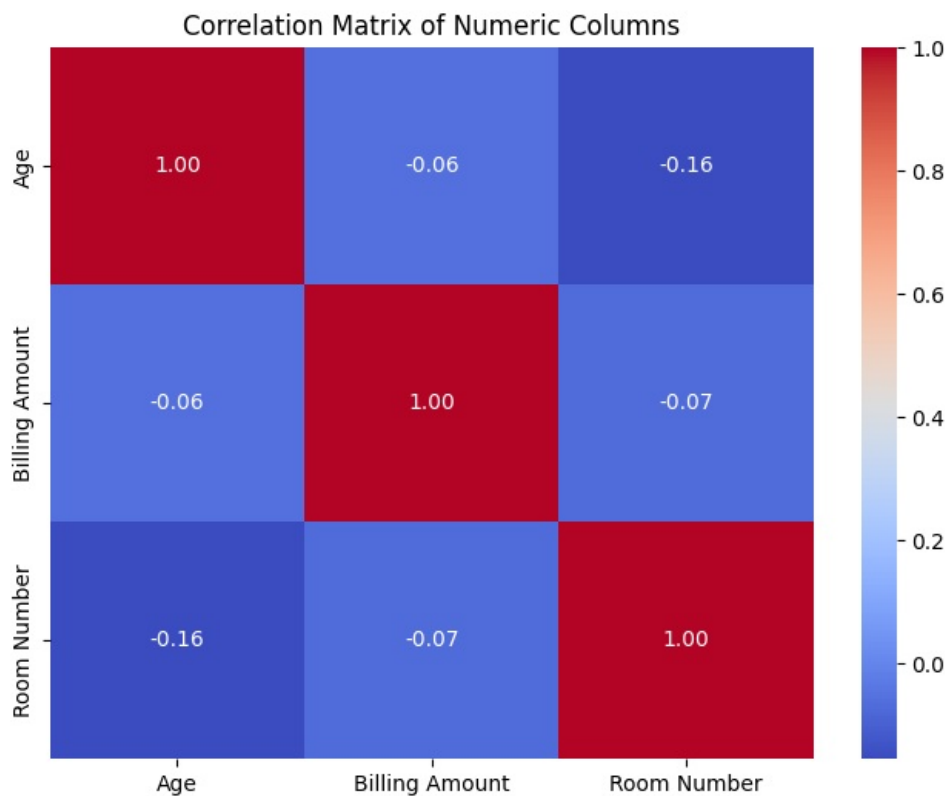


In [28]: # 7. Heatmap: Shows correlations between numeric columns

```
import seaborn as sns
import matplotlib.pyplot as plt

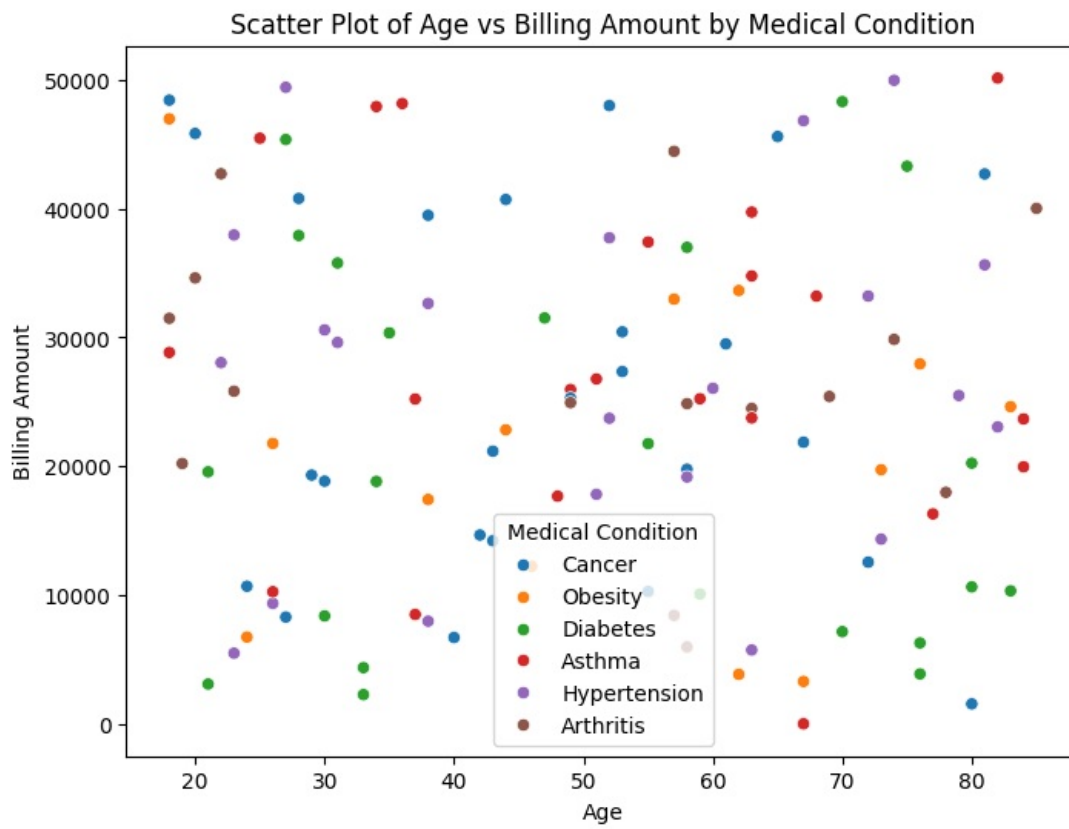
# Compute the correlation matrix
correlation_matrix = data[['Age', 'Billing Amount', 'Room Number']].corr()

# Create the heatmap
plt.figure(figsize=(8, 6))
sns.heatmap(correlation_matrix, annot=True, cmap='coolwarm', fmt='.2f')
plt.title('Correlation Matrix of Numeric Columns')
plt.show()
```

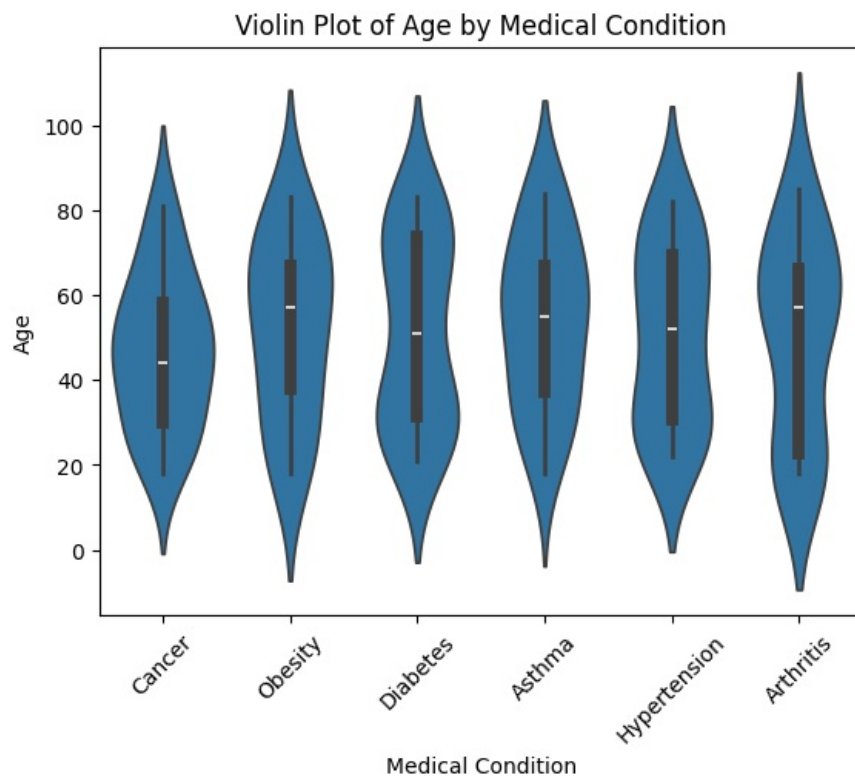


In [29]: # 8. Scatter Plot: Visualizes the relationship between Age and Billing Amount by target

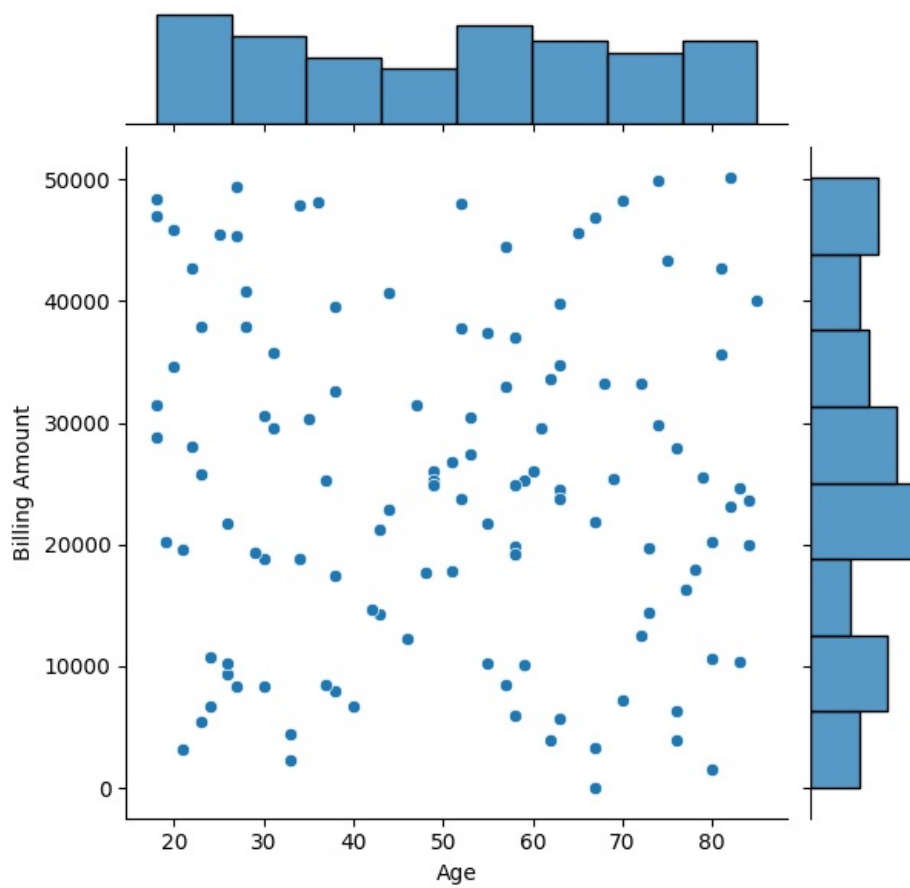
```
plt.figure(figsize=(8, 6))
sns.scatterplot(x='Age', y='Billing Amount', hue='Medical Condition', data=data)
plt.title('Scatter Plot of Age vs Billing Amount by Medical Condition')
plt.show()
```



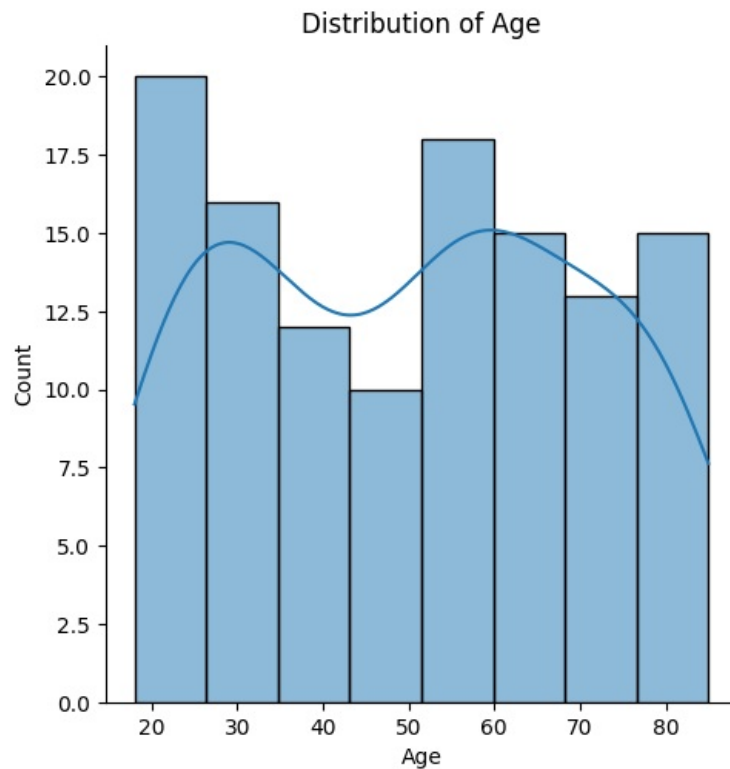
```
In [34]: sns.violinplot(x='Medical Condition', y='Age', data=data)
plt.title('Violin Plot of Age by Medical Condition')
plt.xticks(rotation=45)
plt.show()
```



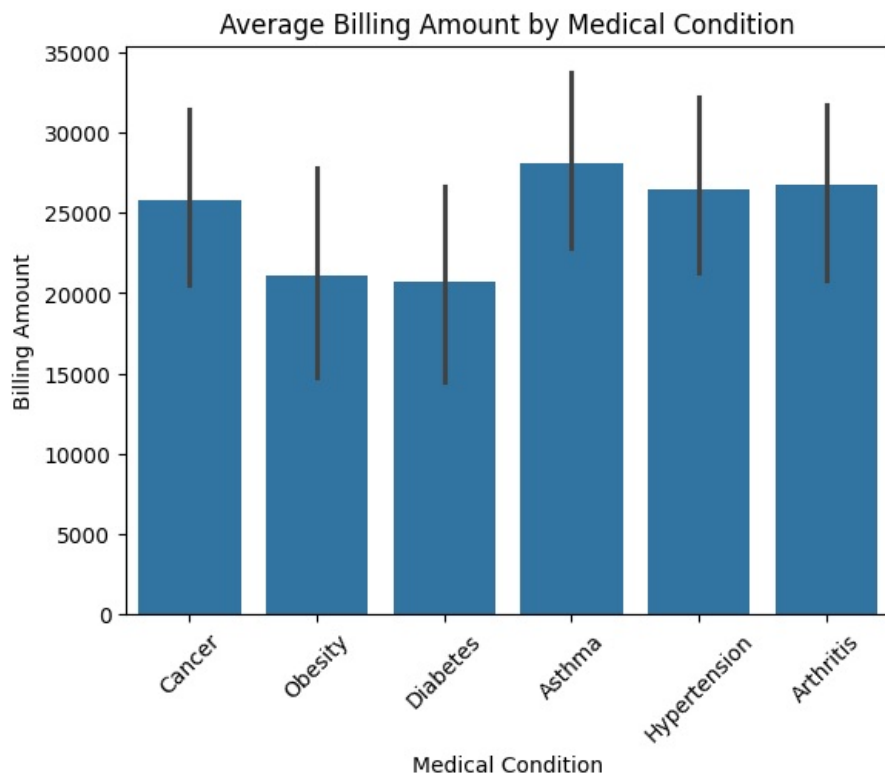
```
In [37]: sns.jointplot(x='Age', y='Billing Amount', data=data, kind='scatter')
plt.show()
```



```
In [38]: sns.displot(data['Age'], kde=True)
plt.title('Distribution of Age')
plt.show()
```



```
In [39]: sns.barplot(x='Medical Condition', y='Billing Amount', data=data)
plt.title('Average Billing Amount by Medical Condition')
plt.xticks(rotation=45)
plt.show()
```



```
In [40]: sns.regplot(x='Age', y='Billing Amount', data=data, scatter_kws={'color':'blue'}, line_kws={'color':'red'})  
plt.title('Regression Plot of Age vs Billing Amount')  
plt.show()
```

