Establshing a Database Connection with Python

In [1]:

```
!pip install mysql-connector-python
```

```
Requirement already satisfied: mysql-connector-python in c:\users\navna\appdata\local\programs\python\python310\lib\site-packages (8.0.29)
Requirement already satisfied: protobuf>=3.0.0 in c:\users\navna\appdata\local\programs\python\python310\lib\site-packages (from mysql-con
nector-python) (4.21.5)


WARNING: Ignoring invalid distribution -ip (c:\users\navna\appdata\local\programs\python\python310\lib\site-packages)
WARNING: Ignoring invalid distribution -ip (c:\users\navna\appdata\local\programs\python\python310\lib\site-packages)
WARNING: Ignoring invalid distribution -ip (c:\users\navna\appdata\local\programs\python\python310\lib\site-packages)
WARNING: Ignoring invalid distribution -ip (c:\users\navna\appdata\local\programs\python\python310\lib\site-packages)
WARNING: Ignoring invalid distribution -ip (c:\users\navna\appdata\local\programs\python\python310\lib\site-packages)
WARNING: Ignoring invalid distribution -ip (c:\users\navna\appdata\local\programs\python\python310\lib\site-packages)
WARNING: You are using pip version 22.0.4; however, version 22.2.2 is available.
You should consider upgrading via the 'C:\Users\navna\AppData\Local\Programs\Python\Python310\python.exe -m pip install --upgrade pip' com
mand.
```

show database

In [2]:

```
import mysql.connector
database=mysql.connector.connect(host="localhost",username="root",password="MySQL$2022")
cursor=database.cursor()
cursor.execute("show databases")
for i in cursor:
    print(i)
```

```
('cdac',)
('hotel_management_system',)
('ind_vs_wi',)
('india_t20',)
('india_vs_england',)
('information_schema',)
('mysql',)
('nava_services',)
('performance_schema',)
('sakila',)
('sys',)
('world',)
```

Inserting data to the DATABASE

In [ ]:

```
database=mysql.connector.connect(host="localhost",username="root",password="$MySQL$2022",database="india_t20
cursor=database.cursor()
sql="insert into india_batting(Player_Name,Runs,BF,4s,6s,SR,Opposite_Team,Match_Date,Match_Result)values(%s,
player1=[('KL Rahul',62,41,6,2,151.22,'AFG','2022-09-08','Won'),
         ('Virat Kohli',122,61,12,6,200.00,'AFG','2022-09-08','Won'),
         ('Suryakumar Yadav',6,2,0,1,300.00,'AFG','2022-09-08','Won'),
         ('Rishabh Pant',20,16,3,0,125,'AFG','2022-09-08','Won'),
         ('Extras',2,0,0,0,0,'AFG','2022-09-08','Won'),
        ]
cursor.executemany(sql,player1)
database.commit()
```

Display the inserted data

In [3]:

```
database = mysql.connector.connect(
host="localhost",
user="root",
password="MySQL$2022",
database="india_t20"
)
mycursor = database.cursor()
mycursor.execute("select * from india_batting where Match_Date='2022-09-08'")
mycursor.fetchall()
```

```
[('KL Rahul', 62, 41, 6, 2, 151.22, 'AFG', datetime.date(2022, 9, 8), 'Won'),
 ('Virat Kohli',
  122,
  61,
  12,
  6,
  200.0,
  'AFG',
  datetime.date(2022, 9, 8),
  'Won'),
 ('Suryakumar Yadav',
  6,
  2,
  0,
  1,
  300.0,
  'AFG',
  datetime.date(2022, 9, 8),
  'Won'),
 ('Rishabh Pant',
  20,
  16,
  3,
  0,
  125.0,
  'AFG',
```

```
 datetime.date(2022, 9, 8),
 'Won'),
('Extras', 2, 0, 0, 0, 0.0, 'AFG', datetime.date(2022, 9, 8), 'Won')]
```

Display total score,6s & 4s of a perticular match

In [4]:

```
database = mysql.connector.connect(
host="localhost",
user="root",
password="MySQL$2022",
database="india_t20"
)
mycursor = database.cursor()
mycursor.execute("select SUM(Runs),SUM(4s),SUM(6s) from india_batting where Match_Date='2022-09-08'")
mycursor.fetchone()
```

```
(Decimal('212'), Decimal('21'), Decimal('9'))
```

In [5]:

```
database = mysql.connector.connect(
host="localhost",
user="root",
password="MySQL$2022",
database="india_t20"
)
mycursor = database.cursor()
mycursor.execute("select Player_Name,Runs,BF from india_batting where Match_Date='2022-09-08'")
mycursor.fetchall()
```

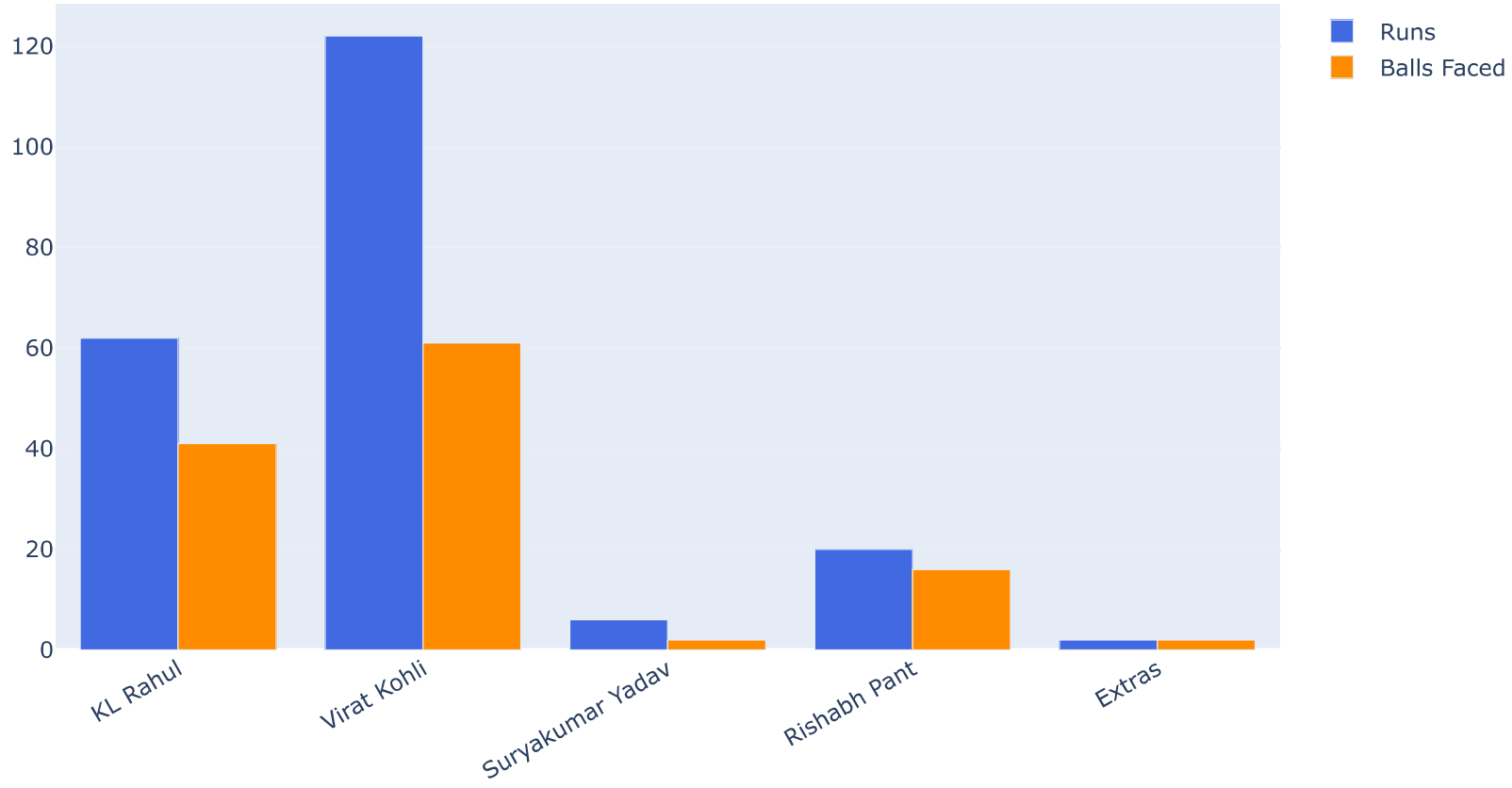
```
[('KL Rahul', 62, 41),
 ('Virat Kohli', 122, 61),
 ('Suryakumar Yadav', 6, 2),
 ('Rishabh Pant', 20, 16),
 ('Extras', 2, 0)]
```

In [6]:

```
import plotly.graph_objects as go

labels = ['KL Rahul','Virat Kohli','Suryakumar Yadav','Rishabh Pant','Extras']
values = [62,122,6,20,2]
fig = go.Figure()
fig.add_trace(go.Bar(
    x=labels,
    y=values,
    name='Runs',
    marker_color='royalblue'
))

fig.add_trace(go.Bar(
    x=labels,
    y=[41,61,2,16,2],
    name='Balls Faced',
    marker_color='darkorange'
))

# Here we modify the tickangle of the xaxis, resulting in rotated labels.
fig.update_layout(barmode='group', xaxis_tickangle=-30)

fig.update_layout(
    title_font_family="Times New Roman",
    title_font_color="black"
)

fig.update_layout(title_text='Scorecard ( Team-India )')
```

```
fig.show()
```

Scorecard (Team-India)



In [16]:

```
def author():
    from datetime import date
    date = date(2022, 9, 11)
    print("Date:-",date)
    print(" ")
    name=input('What is your name?\n')
    print(" ")
    institute=input('Which cdac-institute you belongs to?\n')
    print(" ")
    course=input('Which course you are pursuing in cdac?\n')
    print(" ")
    copyright=input('© copyright\n')
author()
```

```
Date:- 2022-09-11

What is your name?
@Navnath Nagorao Bhoskar

Which cdac-institute you belongs to?
@C-DAC Mumbai Education and Training

Which course you are pursuing in cdac?
@Post Graduate Diploma in Big Data Analytics (PGDBDA)

© copyright
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```

In [ ]: