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SQL Query Questions

Table – Worker

WORKER_ID(primary),FIRST_NAME,LAST_NAME,SALARY,JOINING_DATE,DEPARTMENT

Table – Bonus

WORKER_REF_ID(primary),BONUS_DATE,BONUS_AMOUNT

Table – Title

WORKER_REF_ID(foreign),WORKER_TITLE,AFFECTED_FROM

1. Write An SQL Query To Fetch “FIRST_NAME” From Worker Table Using The Alias Name As worker_name

The screenshot shows a database query interface. At the top, a green status bar indicates "Showing rows 0 - 5 (6 total, Query took 0.0003 seconds.)". Below this, the SQL query is displayed: `select FIRST_NAME as worker_name from worker;`. A toolbar with various options like "Profiling", "Edit inline", "Edit", "Explain SQL", "Create PHP code", and "Refresh" is visible. Below the toolbar, there are filters for "Show all", "Number of rows" (set to 25), "Filter rows" (a search box), and "Sort by key" (set to None). An "Extra options" button is also present. The main area displays a table with one column, "worker_name", containing six rows of data: roy, vipul, satish, anupama, karthika, and ramesh. Each row has a checkbox, an "Edit" button, a "Copy" button, and a "Delete" button. At the bottom, there are additional controls: a "Check all" checkbox, a "With selected:" label, and buttons for "Edit", "Copy", "Delete", and "Export".

worker_name
roy
vipul
satish
anupama
karthika
ramesh

2. Write An SQL Query To Fetch “FIRST_NAME” From Worker Table In Upper Case.

```
23 for i in result:
24     print(i)"""
25
26 #Write An SQL Query To Fetch "FIRST_NAME" From Worker Table In Upper Case.
27 mycursor.execute("select upper(FIRST_NAME) from worker ")
28 result=mycursor.fetchall()
29 for i in result:
30     print(i)
31
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL

```
('RAMESH ',)
PS C:\Users\vishn\AppData\Local\Programs\Python\Python310> & c:/Users/vishn/AppData/Local/Programs/Python/Python310/python.exe c:/Users/vishn/AppData/Local/Programs/Python/Python310/sql2/sql1.py
('ROY ',)
('VIPUL ',)
('SATHISH ',)
('ANUPAMA ',)
('KARTHIKA ',)
('RAMESH ',)
PS C:\Users\vishn\AppData\Local\Programs\Python\Python310> █
```

3. Write An SQL Query To Fetch Unique Values Of DEPARTMENT From Worker Table.

```
32 #3. SQL Query To Fetch Unique Values Of DEPARTMENT From Worker Table.
33 mycursor.execute("select distinct DEPARTMENT from worker ")
34 result=mycursor.fetchall()
35 for i in result:
36     print(i)
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL

```
PS C:\Users\vishn\AppData\Local\Programs\Python\Python310> & c:/Users/vishn/AppData/Local/Programs/Python/Python310/python.exe c:/Users/vishn/AppData/Local/Programs/Python/Python310/sql2/sql1.py
('admin',)
('marketing',)
('sales',)
PS C:\Users\vishn\AppData\Local\Programs\Python\Python310> █
```

4. Write An SQL Query To Print The First Three Characters Of FIRST_NAME From Worker Table.

```
37
38 #4. SQL Query To Print The First Three Characters Of FIRST_NAME From Worker Table.
39 mycursor.execute("select left(FIRST_NAME,3) from worker ")
40 result=mycursor.fetchall()
41 for i in result:
42     print(i)
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL

```
a/Local/Programs/Python/Python310/sql2/sql1.py
('roy',)
('vip',)
('sat',)
('anu',)
('kar',)
('ram',)
PS C:\Users\vishn\AppData\Local\Programs\Python\Python310> █
```

5. Write An SQL Query To Print The FIRST_NAME From Worker Table After Removing White Spaces From The Right Side.

```
44 #5.SQL Query To Print The FIRST_NAME From Worker Table After Removing White Spaces From The Right Side.
45 mycursor.execute("select trim(FIRST_NAME) from worker ")
46 result=mycursor.fetchall()
47 for i in result:
48     print(i)
```

PROBLEMS OUTPUT DEBUG CONSOLE **TERMINAL**

```
PS C:\Users\vishn\AppData\Local\Programs\Python\Python310> & c:/Users/vishn/AppData/Local/Programs/Python/Python310/python.exe c:/Users/vishn/AppData/Local/Programs/Python/Python310/sql2/sql1.py
('roy',)
('vipul',)
('sathish',)
('anupama',)
('karthika',)
('ramesh',)
PS C:\Users\vishn\AppData\Local\Programs\Python\Python310> █
```

6. Write An SQL Query That Fetches The Unique Values Of DEPARTMENT From Worker Table And Prints Its Length.

```
50 #6.SQL Query That Fetches The Unique Values Of DEPARTMENT From Worker Table And Prints Its Length.
51 mycursor.execute("select distinct length(DEPARTMENT) from worker")
52 result=mycursor.fetchall()
53 for i in result:
54     print(i)
```

PROBLEMS OUTPUT DEBUG CONSOLE **TERMINAL**

```
a/Local/Programs/Python/Python310/sql2/sql1.py
(5,)
(9,)
(6,)
PS C:\Users\vishn\AppData\Local\Programs\Python\Python310> █
```

7. Write An SQL Query To Print The FIRST_NAME And LAST_NAME From Worker Table Into A Single Column COMPLETE_NAME. A Space Char Should Separate Them.

✓ Showing rows 0 - 5 (6 total, Query took 0.0004 seconds.)

```
select concat(FIRST_NAME, ' ', LAST_NAME) as COMPLETE_NAME from worker;
```

☐ Profiling [Edit inline] [Edit] [Explain SQL] [Create PHP code] [Refresh]

☐ Show all | Number of rows: 25 | Filter rows: Search this table | Sort by key: None

Extra options

COMPLETE_NAME
roy mathew
vipul satish
sathish nair
anupama pillai
karthika das
ramesh nair

8. Write An SQL Query To Print All Worker Details From The Worker Table Order By FIRST_NAME Ascending.

```
61
62 #8.SQL Query To Print All Worker Details From The Worker Table Order By FIRST_NAME Ascending.
63 mycursor.execute("select * from worker order by FIRST_NAME asc")
64 result=mycursor.fetchall()
65 for i in result:
66     print(i)
67
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL

```
a:\Local\Programs\Python\Python310\sql2/sql1.py
(4, 'anupama ', 'pillai', 50000, 'april2014', 'admin')
(5, 'karthika ', 'das', 47000, 'february2014', 'marketing')
(6, 'ramesh ', 'nair', 95000, 'april2014', 'admin')
(1, 'roy ', 'mathew', 101000, 'february2014', 'admin')
(3, 'sathish ', 'nair', 100010, 'january2014', 'sales ')
(2, 'vipul ', 'das', 65000, 'october2014', 'marketing')
PS C:\Users\vishn\AppData\Local\Programs\Python\Python310> []
```

9. Write An SQL Query To Print All Worker Details From The Worker Table Order By FIRST_NAME Ascending And DEPARTMENT Descending.

```
68 #9.SQL Query To Print All Worker Details From The Worker Table Order By FIRST_NAME Ascending And DEPARTMENT Descending.
69 mycursor.execute("select * from worker order by FIRST_NAME asc")
70 result=mycursor.fetchall()
71 for i in result:
72     print(i)
73 print()
74 mycursor.execute("select * from worker order by DEPARTMENT desc")
75 result=mycursor.fetchall()
76 for i in result:
77     print(i)
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL

```
a:\Local\Programs\Python\Python310\sql2/sql1.py
(4, 'anupama ', 'pillai', 50000, 'april2014', 'admin')
(5, 'karthika ', 'das', 47000, 'february2014', 'marketing')
(6, 'ramesh ', 'nair', 95000, 'april2014', 'admin')
(1, 'roy ', 'mathew', 101000, 'february2014', 'admin')
(3, 'sathish ', 'nair', 100010, 'january2014', 'sales ')
(2, 'vipul ', 'das', 65000, 'october2014', 'marketing')

(3, 'sathish ', 'nair', 100010, 'january2014', 'sales ')
(2, 'vipul ', 'das', 65000, 'october2014', 'marketing')
(5, 'karthika ', 'das', 47000, 'february2014', 'marketing')
(1, 'roy ', 'mathew', 101000, 'february2014', 'admin')
(4, 'anupama ', 'pillai', 50000, 'april2014', 'admin')
(6, 'ramesh ', 'nair', 95000, 'april2014', 'admin')
PS C:\Users\vishn\AppData\Local\Programs\Python\Python310> []
```

10. Write An SQL Query To Print Details For Workers With The First Name As “Vipul” And “Satish” From Worker Table.

```
79 #10.SQL Query To Print Details For Workers With The First Name As “Vipul” And “Satish” From Worker Table.
80 mycursor.execute("select * from worker where FIRST_NAME in('vipul','satish')")
81 result=mycursor.fetchall()
82 for i in result:
83     print(i)
84
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL

```
a:\Local\Programs\Python\Python310\sql2/sql1.py
(2, 'vipul ', 'satish', 65000, 'october2014', 'marketing')
(3, 'satish ', 'nair', 100010, 'january2014', 'sales ')
PS C:\Users\vishn\AppData\Local\Programs\Python\Python310>
```

11. Write An SQL Query To Print Details Of Workers Excluding First Names, “Vipul” And “Satish” From Worker Table.

```
85 #11.SQL Query To Print Details Of Workers Excluding First Names, "Vipul" And "Satish" From Worker Table.
86 mycursor.execute("select * from worker where FIRST_NAME not in('vipul','satish')")
87 result=mycursor.fetchall()
88 for i in result:
89     print(i)
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL

```
PS C:\Users\vishn\AppData\Local\Programs\Python\Python310> & c:/Users/vishn/AppData/Local/Programs/Python/Python310/python.exe c:/Users/vishn/AppData/Local/Programs/Python/Python310/sql2/sql1.py
(1, 'roy ', 'mathew', 101000, 'february2014', 'admin')
(4, 'anupama ', 'pillai', 50000, 'april2014', 'admin')
(5, 'karthika ', 'das', 47000, 'february2014', 'marketing')
(6, 'ramesh ', 'nair', 95000, 'april2014', 'admin')
PS C:\Users\vishn\AppData\Local\Programs\Python\Python310>
```

12. Write An SQL Query To Print Details Of Workers With DEPARTMENT Name As “Admin”.

```
91 #12.SQL Query To Print Details Of Workers With DEPARTMENT Name As "Admin".
92 mycursor.execute("select * from worker where DEPARTMENT='admin'")
93 result=mycursor.fetchall()
94 for i in result:
95     print(i)
96
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL

```
a/Local/Programs/Python/Python310/sql2/sql1.py
(1, 'roy ', 'mathew', 101000, 'february2014', 'admin')
(4, 'anupama ', 'pillai', 50000, 'april2014', 'admin')
(6, 'ramesh ', 'nair', 95000, 'april2014', 'admin')
PS C:\Users\vishn\AppData\Local\Programs\Python\Python310>
```

13. Write An SQL Query To Print Details Of The Workers Whose FIRST_NAME Contains ‘A’.

```
97 #13.SQL Query To Print Details Of The Workers Whose FIRST_NAME Contains 'A'.
98 mycursor.execute("select * from worker where FIRST_NAME like '%a%'")
99 result=mycursor.fetchall()
100 for i in result:
101     print(i)
102
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL

```
PS C:\Users\vishn\AppData\Local\Programs\Python\Python310> & c:/Users/vishn/AppData/Local/Programs/Python/Python310/python.exe c:/Users/vishn/AppData/Local/Programs/Python/Python310/sql2/sql1.py
(3, 'satish ', 'nair', 100010, 'january2014', 'sales ')
(4, 'anupama ', 'pillai', 50000, 'april2014', 'admin')
(5, 'karthika ', 'das', 47000, 'february2014', 'marketing')
(6, 'ramesh ', 'nair', 95000, 'april2014', 'admin')
PS C:\Users\vishn\AppData\Local\Programs\Python\Python310>
```

14. Write An SQL Query To Print Details Of The Workers Whose FIRST_NAME Ends With ‘A’.

```

103 #Write An SQL Query To Print Details Of The Workers Whose FIRST_NAME Ends With 'A'
104 mycursor.execute("select * from worker where FIRST_NAME like '%a'|'")
105 result=mycursor.fetchall()
106 for i in result:
107     print(i)
108

```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL

```

a/Local/Programs/Python/Python310/sql2/sql1.py
(4, 'anupama ', 'pillai', 50000, 'april2014', 'admin')
(5, 'karthika ', 'das', 47000, 'february2014', 'marketing')
PS C:\Users\vishn\AppData\Local\Programs\Python\Python310>

```

15. Write An SQL Query To Print Details Of The Workers Whose FIRST_NAME Ends With 'H' And Contains Six Alphabets

```

109 #14. SQL Query To Print Details Of The Workers Whose FIRST_NAME Ends With 'H' And Contains Six Alphabets
110 mycursor.execute("select * from worker where FIRST_NAME like '____h'|'")
111 result=mycursor.fetchall()
112 for i in result:
113     print(i)
114

```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL

```

a/Local/Programs/Python/Python310/sql2/sql1.py
(3, 'satish ', 'nair', 100010, 'january2014', 'sales ')
(6, 'ramesh ', 'nair', 95000, 'april2014', 'admin')
PS C:\Users\vishn\AppData\Local\Programs\Python\Python310>

```

16. Write An SQL Query To Print Details Of The Workers Whose SALARY Lies Between 100000 And 500000.

```

115 #15. SQL Query To Print Details Of The Workers Whose SALARY Lies Between 100000 And 500000.
116 mycursor.execute("select * from worker where SALARY between 100000 and 500000")
117 result=mycursor.fetchall()
118 for i in result:
119     print(i)
120

```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL

```

a/Local/Programs/Python/Python310/sql2/sql1.py
(1, 'roy ', 'mathew', 101000, 'february2014', 'admin')
(3, 'satish ', 'nair', 100010, 'january2014', 'sales ')
PS C:\Users\vishn\AppData\Local\Programs\Python\Python310>

```

17. Write An SQL Query To Print Details Of The Workers Who Have Joined In Feb'2014.

```

121 #16. SQL Query To Print Details Of The Workers Who Have Joined In Feb'2014.
122 mycursor.execute("select * from worker where JOINING_DATE='february2014'")
123 result=mycursor.fetchall()
124 for i in result:
125     print(i)

```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL

```

a/Local/Programs/Python/Python310/sql2/sql1.py
(1, 'roy ', 'mathew', 101000, 'february2014', 'admin')
(5, 'karthika ', 'das', 47000, 'february2014', 'marketing')
PS C:\Users\vishn\AppData\Local\Programs\Python\Python310>

```

18. Write An SQL Query To Fetch The Count Of Employees Working In The Department 'Admin'.

```

127 #17.SQL Query To Fetch The Count Of Employees Working In The Department 'Admin'.
128 mycursor.execute(["select count(DEPARTMENT) from worker where DEPARTMENT='admin'"])
129 result=mycursor.fetchall()
130 for i in result:
131     print(i)
132

```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL

```

a:/Local/Programs/Python/Python310/sql2/sql1.py
(3,)
PS C:\Users\vishn\AppData\Local\Programs\Python\Python310>

```

19. Write An SQL Query To Fetch Worker Names With Salaries ≥ 50000 And ≤ 100000 .

```

133 #19. Write An SQL Query To Fetch Worker Names With Salaries  $\geq 50000$  And  $\leq 100000$ .
134 mycursor.execute(["select * from worker where SALARY >= 50000 or SALARY <= 100000"])
135 result=mycursor.fetchall()
136 for i in result:
137     print(i)
138
139

```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL

```

a:/Local/Programs/Python/Python310/sql2/sql1.py
(3,)
PS C:\Users\vishn\AppData\Local\Programs\Python\Python310> & c:/Users/vishn/AppData/Local/Programs/Python/Python310/python.exe c:/Users/vishn/AppData/Local/Programs/Python/Python310/sql2/sql1.py
(1, 'roy ', 'mathew', 101000, 'february2014', 'admin')
(2, 'vipul ', 'satish', 65000, 'october2014', 'marketing')
(3, 'satish ', 'nair', 100010, 'january2014', 'sales ')
(4, 'anupama ', 'pillai', 50000, 'april2014', 'admin')
(5, 'karthika ', 'das', 47000, 'february2014', 'marketing')
(6, 'ramesh ', 'nair', 95000, 'april2014', 'admin')
PS C:\Users\vishn\AppData\Local\Programs\Python\Python310>

```

20. Write An SQL Query To Fetch The No. Of Workers For Each Department In The Descending Order.