Question of SQL: 2 Tables, person and salary

- personID salary ke table mein foriegn key jayegi
- personID primary key, name , phone number, gender, address
- Salary table, createdOnDate, salaryID, foriengID person wali, salary float, jis month ki salary hogi us month ki pheli tareekh hogi, department, salary month
-
- person 10, salary 10 entries har bande ki 10 entries, har month ki alag alag date
- 4 salaries kum dalni hai, agle 4 maheene ki 20 hazar, agle 4 maheene ki 50 hazar
-
- using loop to do entries
-
- kisi bhi bande ki highest salary , medium second last salary, sb se kum wali salary
-
- one query top highest salary of all employees

SOLUTION:

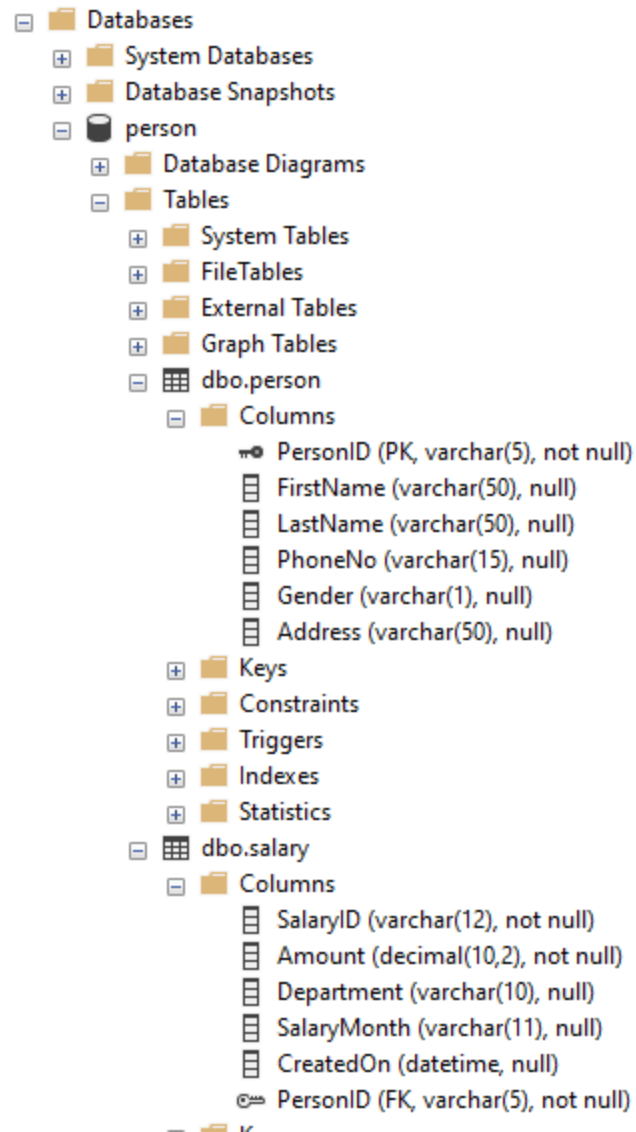First, I created database using following query:

CREATE DATABASE OFFICE;

Then, I created table person using following query:

CREATE TABLE PERSON(

PersonID varchar(5) primary key not null,

FirstName varchar(50),

LastName varchar(50),

PhoneNo varchar(15),

Gender varchar(1),

Address varchar(50)

);

Then, I created table salary using following query:

```
CREATE TABLE SALARY(

SalaryID varchar(12) not null,

Amount decimal(10,2) not null,

Department varchar(10),

        SalaryMonth varchar(11),

CreatedOn TIMESTAMP DEFAULT CURRENT_TIMESTAMP,

        PersonID varchar(5),

        Foreignkey(PersonID) references person(PersonID)

);
```

BELOW I ATTACHED SCREENSHOT>

- Databases
  - System Databases
  - Database Snapshots
  - person
    - Database Diagrams
    - Tables
      - System Tables
      - FileTables
      - External Tables
      - Graph Tables
      - dbo.person
        - Columns
          - PersonID (PK, varchar(5), not null)
          - FirstName (varchar(50), null)
          - LastName (varchar(50), null)
          - PhoneNo (varchar(15), null)
          - Gender (varchar(1), null)
          - Address (varchar(50), null)
        - Keys
        - Constraints
        - Triggers
        - Indexes
        - Statistics
      - dbo.salary
        - Columns
          - SalaryID (varchar(12), not null)
          - Amount (decimal(10,2), not null)
          - Department (varchar(10), null)
          - SalaryMonth (varchar(11), null)
          - CreatedOn (datetime, null)
          - PersonID (FK, varchar(5), not null)

Now, we finally created our database and 2 tables with their columns.

Now, what I'm going to do is insert 10 people in person table using following query:

INSERT INTO PERSON

VALUES ('1A','Okasha','Nadeem',' +92 313 2425026','M',' Rafe e Aam Society, Malir, Karachi, Pakistan')

Just like that I did 9 other entries to complete data of 10 persons in person table.

Here's the screenshot:

	PersonID	First Name	Last Name	PhoneNo	Gender	Address
1	1A	Okasha	Nadeem	+92 313 2425026	M	Rafe e Aam Society, Malir, Karachi, Pakistan
2	1B	Muhammad Zain	Zameer	+92 318 2954182	M	Jamia Millia Road, Malir, Karachi, Pakistan
3	1C	Hurraira	Junaid	+92 311-7825123	M	Model Town, Malir, Karachi, Pakistan
4	1D	Mustafa	Faisal	+92 322-5635223	M	Model Town, Malir, Karachi, Pakistan
5	1E	Shehryar	Khan	+92 232-3634263	M	Near Iqra University, Malir, Karachi, Pakistan
6	1F	Ahsan	Naeem	+92 211-3614161	M	Near NUCES, phatak road, Karachi, Pakistan
7	1G	Maham	Javed	+92 111-3314211	F	Malir Cantt, Karachi, Pakistan
8	1H	Maheen	Khan	+92 311-2344522	F	Malir Cantt, Karachi, Pakistan
9	1I	Sania	Khan	+92 311-2344522	F	Near Malir Coart Kacheri, Karachi, Pakistan
10	1J	Amna	Yousuf	+92 311-2344522	F	Shamshi Society, Malir, Karachi, Pakistan

Now, on other table which is salary table, first I entered data of 10 persons 1 time which is the data of 1 january salary of every person. Here's the following query:

INSERT INTO SALARY(SalaryID, Amount, Department, SalaryMonth, PersonID)

VALUES

   ('ASD10', 54000.00, 'Software T', '1-January', '1A'),

   ('ASD11', 7000.00, 'Cleaning', '1-January', '1B'),

   ('ASD12', 80000.00, 'Tutor', '1-January', '1C'),

   ('ASD13', 700000.00, 'Cyber T', '1-January', '1D'),

   ('ASD14', 90000.00, 'HR', '1-January', '1E'),

   ('ASD15', 7000.00, 'Software P', '1-January', '1F'),

   ('ASD16', 500000.00, 'Hoo Hoo', '1-January', '1G'),

   ('ASD17', 800000.00, 'Factory R', '1-January', '1H'),

   ('ASD18', 900000.00, 'Banking', '1-January', '1I'),

   ('ASD19', 10000000.00, 'Software Res', '1-January', '1J')

After running that, now I have to enter other 110 data using loops so I created python script which is available in repo. By that script, I entered data of every person with increments after every 4 months.

Here's the screenshot :

	SalaryID	Amount	Department	SalaryMonth	CreatedOn	PersonID
1	ASD10	54000.00	Software T	1-January	2024-04-23 09:16:42.400	1A
2	ASD31	7000.00	Cleaning	1-January	2024-04-23 11:53:11.053	1B
3	ASD12	80000.00	Tutor	1-January	2024-04-23 09:16:42.400	1C
4	ASD13	700000.00	Cyber T	1-January	2024-04-23 09:16:42.400	1D
5	ASD14	90000.00	HR	1-January	2024-04-23 09:16:42.400	1E
6	ASD15	7000.00	Software P	1-January	2024-04-23 09:16:42.400	1F
7	ASD16	500000.00	Hoo Hoo	1-January	2024-04-23 09:16:42.400	1G
8	ASD17	800000.00	Factory R	1-January	2024-04-23 09:16:42.400	1H
9	ASD18	900000.00	Banking	1-January	2024-04-23 09:16:42.400	1I
10	ASD19	10000000.00	Software R	1-January	2024-04-23 09:16:42.400	1J
11	ASD20	54000.00	Software T	1-February	2024-04-23 11:18:01.693	1A
12	ASD21	54000.00	Software T	1-March	2024-04-23 11:18:01.940	1A
13	ASD22	54000.00	Software T	1-April	2024-04-23 11:18:01.943	1A
14	ASD23	108000.00	Software T	1-May	2024-04-23 11:18:01.947	1A
15	ASD24	108000.00	Software T	1-June	2024-04-23 11:18:01.960	1A
16	ASD25	108000.00	Software T	1-July	2024-04-23 11:18:01.987	1A
17	ASD26	108000.00	Software T	1-August	2024-04-23 11:18:01.997	1A
18	ASD27	216000.00	Software T	1-September	2024-04-23 11:18:02.000	1A
19	ASD28	216000.00	Software T	1-October	2024-04-23 11:18:02.003	1A
20	ASD29	216000.00	Software T	1-November	2024-04-23 11:18:02.003	1A
21	ASD30	216000.00	Software T	1-December	2024-04-23 11:18:02.003	1A
22	ASD32	7000.00	Cleaning	1-February	2024-04-23 11:53:11.063	1B
23	ASD43	80000.00	Tutor	1-February	2024-04-23 18:27:32.363	1C
24	ASD44	80000.00	Tutor	1-March	2024-04-23 18:27:32.377	1C
25	ASD45	80000.00	Tutor	1-April	2024-04-23 18:27:32.380	1C
26	ASD46	160000.00	Tutor	1-May	2024-04-23 18:27:32.383	1C
27	ASD47	160000.00	Tutor	1-June	2024-04-23 18:27:32.387	1C
28	ASD48	160000.00	Tutor	1-July	2024-04-23 18:27:32.387	1C
29	ASD49	160000.00	Tutor	1-August	2024-04-23 18:27:32.390	1C
30	ASD50	320000.00	Tutor	1-September	2024-04-23 18:27:32.413	1C

31	ASD51	320000.00	Tutor	1-October	2024-04-23 18:27:32.417	1C
32	ASD52	320000.00	Tutor	1-November	2024-04-23 18:27:32.420	1C
33	ASD53	320000.00	Tutor	1-December	2024-04-23 18:27:32.420	1C
34	ASD54	700000.00	Cyber T	1-February	2024-04-23 18:29:55.143	1D
35	ASD55	700000.00	Cyber T	1-March	2024-04-23 18:29:55.147	1D
36	ASD76	7000.00	Software P	1-February	2024-04-23 18:37:10.377	1F
37	ASD77	7000.00	Software P	1-March	2024-04-23 18:37:10.377	1F
38	ASD78	7000.00	Software P	1-April	2024-04-23 18:37:10.380	1F
39	ASD79	14000.00	Software P	1-May	2024-04-23 18:37:10.380	1F
40	ASD80	14000.00	Software P	1-June	2024-04-23 18:37:10.383	1F
41	ASD81	14000.00	Software P	1-July	2024-04-23 18:37:10.383	1F
42	ASD82	14000.00	Software P	1-August	2024-04-23 18:37:10.383	1F
43	ASD83	28000.00	Software P	1-September	2024-04-23 18:37:10.387	1F
44	ASD84	28000.00	Software P	1-October	2024-04-23 18:37:10.387	1F
45	ASD85	28000.00	Software P	1-November	2024-04-23 18:37:10.387	1F
46	ASD86	28000.00	Software P	1-December	2024-04-23 18:37:10.390	1F
47	ASD98	800000.00	Factory R	1-February	2024-04-23 18:42:22.507	1H
48	ASD99	800000.00	Factory R	1-March	2024-04-23 18:42:22.510	1H
49	ASD100	800000.00	Factory R	1-April	2024-04-23 18:42:22.510	1H
50	ASD101	1600000.00	Factory R	1-May	2024-04-23 18:42:22.513	1H
51	ASD102	1600000.00	Factory R	1-June	2024-04-23 18:42:22.513	1H
52	ASD103	1600000.00	Factory R	1-July	2024-04-23 18:42:22.517	1H
53	ASD104	1600000.00	Factory R	1-August	2024-04-23 18:42:22.517	1H
54	ASD105	3200000.00	Factory R	1-September	2024-04-23 18:42:22.517	1H
55	ASD106	3200000.00	Factory R	1-October	2024-04-23 18:42:22.520	1H
56	ASD107	3200000.00	Factory R	1-November	2024-04-23 18:42:22.520	1H
57	ASD108	3200000.00	Factory R	1-December	2024-04-23 18:42:22.520	1H
58	ASD109	900000.00	Banking	1-February	2024-04-23 18:43:19.717	1I
59	ASD110	900000.00	Banking	1-March	2024-04-23 18:43:19.717	1I
60	ASD111	900000.00	Banking	1-April	2024-04-23 18:43:19.737	1I

61	ASD112	1800000.00	Banking	1-May	2024-04-23 18:43:19.740	1I
62	ASD113	1800000.00	Banking	1-June	2024-04-23 18:43:19.740	1I
63	ASD114	1800000.00	Banking	1-July	2024-04-23 18:43:19.740	1I
64	ASD115	1800000.00	Banking	1-August	2024-04-23 18:43:19.743	1I
65	ASD116	3600000.00	Banking	1-September	2024-04-23 18:43:19.747	1I
66	ASD117	3600000.00	Banking	1-October	2024-04-23 18:43:19.747	1I
67	ASD118	3600000.00	Banking	1-November	2024-04-23 18:43:19.750	1I
68	ASD119	3600000.00	Banking	1-December	2024-04-23 18:43:19.750	1I
69	ASD33	7000.00	Cleaning	1-March	2024-04-23 11:53:11.067	1B
70	ASD34	7000.00	Cleaning	1-April	2024-04-23 11:53:11.107	1B
71	ASD35	14000.00	Cleaning	1-May	2024-04-23 11:53:11.127	1B
72	ASD36	14000.00	Cleaning	1-June	2024-04-23 11:53:11.127	1B
73	ASD37	14000.00	Cleaning	1-July	2024-04-23 11:53:11.140	1B
74	ASD38	14000.00	Cleaning	1-August	2024-04-23 11:53:11.140	1B
75	ASD39	28000.00	Cleaning	1-September	2024-04-23 11:53:11.143	1B
76	ASD40	28000.00	Cleaning	1-October	2024-04-23 11:53:11.157	1B
77	ASD41	28000.00	Cleaning	1-November	2024-04-23 11:53:11.160	1B
78	ASD42	28000.00	Cleaning	1-December	2024-04-23 11:53:11.160	1B
79	ASD56	700000.00	Cyber T	1-April	2024-04-23 18:29:55.157	1D
80	ASD57	1400000.00	Cyber T	1-May	2024-04-23 18:29:55.160	1D
81	ASD58	1400000.00	Cyber T	1-June	2024-04-23 18:29:55.173	1D
82	ASD59	1400000.00	Cyber T	1-July	2024-04-23 18:29:55.173	1D
83	ASD60	1400000.00	Cyber T	1-August	2024-04-23 18:29:55.177	1D
84	ASD61	2800000.00	Cyber T	1-September	2024-04-23 18:29:55.177	1D
85	ASD62	2800000.00	Cyber T	1-October	2024-04-23 18:29:55.177	1D
86	ASD63	2800000.00	Cyber T	1-November	2024-04-23 18:29:55.180	1D
87	ASD64	2800000.00	Cyber T	1-December	2024-04-23 18:29:55.180	1D
88	ASD65	90000.00	HR	1-February	2024-04-23 18:34:36.410	1E
89	ASD66	90000.00	HR	1-March	2024-04-23 18:34:36.433	1E
90	ASD67	90000.00	HR	1-April	2024-04-23 18:34:36.433	1E

91	ASD68	180000.00	HR	1-May	2024-04-23 18:34:36.440	1E
92	ASD69	180000.00	HR	1-June	2024-04-23 18:34:36.440	1E
93	ASD70	180000.00	HR	1-July	2024-04-23 18:34:36.443	1E
94	ASD71	180000.00	HR	1-August	2024-04-23 18:34:36.457	1E
95	ASD72	360000.00	HR	1-September	2024-04-23 18:34:36.460	1E
96	ASD73	360000.00	HR	1-October	2024-04-23 18:34:36.460	1E
97	ASD74	360000.00	HR	1-November	2024-04-23 18:34:36.473	1E
98	ASD75	360000.00	HR	1-December	2024-04-23 18:34:36.477	1E
99	ASD87	500000.00	Hoo Hoo	1-February	2024-04-23 18:40:17.640	1G
100	ASD88	500000.00	Hoo Hoo	1-March	2024-04-23 18:40:17.640	1G
101	ASD89	500000.00	Hoo Hoo	1-April	2024-04-23 18:40:17.643	1G
102	ASD90	1000000.00	Hoo Hoo	1-May	2024-04-23 18:40:17.660	1G
103	ASD91	1000000.00	Hoo Hoo	1-June	2024-04-23 18:40:17.690	1G
104	ASD92	1000000.00	Hoo Hoo	1-July	2024-04-23 18:40:17.720	1G
105	ASD93	1000000.00	Hoo Hoo	1-August	2024-04-23 18:40:17.720	1G
106	ASD94	2000000.00	Hoo Hoo	1-September	2024-04-23 18:40:17.723	1G
107	ASD95	2000000.00	Hoo Hoo	1-October	2024-04-23 18:40:17.727	1G
108	ASD96	2000000.00	Hoo Hoo	1-November	2024-04-23 18:40:17.753	1G
109	ASD97	2000000.00	Hoo Hoo	1-December	2024-04-23 18:40:17.757	1G
110	ASD120	10000000.00	Software R	1-February	2024-04-23 18:44:15.870	1J
111	ASD121	10000000.00	Software R	1-March	2024-04-23 18:44:15.880	1J
112	ASD122	10000000.00	Software R	1-April	2024-04-23 18:44:15.883	1J
113	ASD123	20000000.00	Software R	1-May	2024-04-23 18:44:15.893	1J
114	ASD124	20000000.00	Software R	1-June	2024-04-23 18:44:15.897	1J
115	ASD125	20000000.00	Software R	1-July	2024-04-23 18:44:15.897	1J
116	ASD126	20000000.00	Software R	1-August	2024-04-23 18:44:15.913	1J
117	ASD127	40000000.00	Software R	1-September	2024-04-23 18:44:15.913	1J
118	ASD128	40000000.00	Software R	1-October	2024-04-23 18:44:15.917	1J
119	ASD129	40000000.00	Software R	1-November	2024-04-23 18:44:15.917	1J
120	ASD130	40000000.00	Software R	1-December	2024-04-23 18:44:15.920	1J

Now we have to find all persons max salary:

select distinct PersonID, MAX(Amount) as Salary

      from salary

      group by PersonID

Now we have to find all persons min salary:

select distinct PersonID, MIN(Amount) as Salary

      from salary

      group by PersonID

Now we have to find person who have max salary:

      SELECT distinct s.PersonID, s.Amount AS Salary

      FROM salary s

      INNER JOIN (

        SELECT MAX(Amount) AS MaxSalary

        FROM salary

) AS max_sal ON s.Amount = max_sal.MaxSalary;

Now we have to find person who have max salary:

      SELECT distinct s.PersonID, s.Amount AS Salary

      FROM salary s

      INNER JOIN (

        SELECT MIN(Amount) AS MinSalary

        FROM salary

) AS min_sal ON s.Amount = min_sal.MinSalary;

The End :)