

1 DBMSL Assignment No 3
2 Name - Himanshu Vijay Lonkar
3 Roll No - C31149
4 Batch - T3

6 Output:-

8 # Data into the Tables.

10 I) mysql> desc branch_master;

Field	Type	Null	Key	Default	Extra
branch_id	varchar(30)	NO	PRI	NULL	
bname	varchar(100)	YES		NULL	

17 2 rows in set (0.01 sec)

18 mysql> select *from branch_master;

branch_id	bname
B1	Sangvi
B2	Vadgoan
B3	Aundh
B4	Baramati
B5	Amegaon

28 5 rows in set (0.02 sec)

30 II) mysql> desc employee_master;

Field	Type	Null	Key	Default	Extra
emp_no	varchar(30)	NO	PRI	NULL	
ename	varchar(100)	YES		NULL	
branch_id	varchar(30)	YES	MUL	NULL	
salary	int	YES		NULL	
dept	varchar(80)	YES		NULL	
manger_id	varchar(30)	YES	MUL	NULL	

41 6 rows in set (0.00 sec)

42 mysql> select * from employee_master;

emp_no	ename	branch_id	salary	dept	manger_id
E1	Aniket	B1	10000	Loan	E3
E10	Vijay	B5	12000	Admin	E2
E2	Himanshu	B1	150000	Admin	NULL
E3	Vinit	B1	15000	Admin	E2
E4	Prajyot	B2	15000	Admin	E2
E5	Abhay	B2	10000	NULL	E4
E6	Shubham	B3	15000	Admin	E2
E7	Nirmala	B3	10000	Investment	E6
E8	Abhishek	B4	12000	Admin	E2
E9	Abhinav	B4	10000	Loan	E8

57 10 rows in set (0.00 sec)

59 III)mysql> desc contact_details;

Field	Type	Null	Key	Default	Extra
emp_id	varchar(30)	YES	MUL	NULL	
email_id	varchar(80)	YES		NULL	
phnno	int	YES		NULL	

67 3 rows in set (0.00 sec)

68 mysql> select *from contact_details;

69

```

70 | emp_id | email_id | phnno |
71 +-----+-----+-----+
72 | E2     | himanshu@ | 987654321 |
73 | E3     | vinit@    | NULL |
74 | E4     | prajyot@  | NULL |
75 | E5     | NULL      | 1234509876 |
76 | E6     | NULL      | 678905321 |
77 | E7     | NULL      | NULL |
78 | E8     | NULL      | NULL |
79 | E9     | abhinav@  | 123457890 |
80 +-----+-----+-----+
81 10 rows in set (0.00 sec)

```

IV) mysql> desc emp_address;

```

84 +-----+-----+-----+-----+-----+-----+
85 | Field | Type          | Null | Key | Default | Extra |
86 +-----+-----+-----+-----+-----+-----+
87 | emp_id | varchar(30)   | YES  | MUL | NULL    |       |
88 | street | varchar(40)   | YES  |     | NULL    |       |
89 | city   | varchar(30)   | YES  |     | NULL    |       |
90 | state  | varchar(60)   | YES  |     | NULL    |       |
91 +-----+-----+-----+-----+-----+-----+
92 4 rows in set (0.00 sec)

```

mysql> select * from emp_address;

```

94 +-----+-----+-----+-----+
95 | emp_id | street      | city   | state |
96 +-----+-----+-----+-----+
97 | E1     | Lane No 1   | Pune   | Maharashtra |
98 | E2     | Lane no 4   | Pune   | Maharashtra |
99 | E3     | XYZ         | Mumbai | NULL |
100 | E4     | ABC         | Mumbai | NULL |
101 | E6     | PQR         | NULL   | UP |
102 | E7     | LMN         | NULL   | MP |
103 | E8     | NULL        | NULL   | NULL |
104 | E9     | NULL        | NULL   | NULL |
105 | E5     | NULL        | Nahsik | Maharashtra |
106 +-----+-----+-----+-----+
107 10 rows in set (0.00 sec)

```

V) mysql> desc branch_address;

```

110 +-----+-----+-----+-----+-----+-----+
111 | Field | Type          | Null | Key | Default | Extra |
112 +-----+-----+-----+-----+-----+-----+
113 | branch_id | varchar(30) | YES  | MUL | NULL    |       |
114 | city      | varchar(40) | YES  |     | NULL    |       |
115 | state     | varchar(60) | YES  |     | NULL    |       |
116 +-----+-----+-----+-----+-----+-----+
117 3 rows in set (0.00 sec)

```

mysql> select * from branch_address;

```

119 +-----+-----+-----+
120 | branch_id | city      | state |
121 +-----+-----+-----+
122 | B1        | Pune      | Maharashtra |
123 | B2        | Nashik    | Maharashtra |
124 | B3        | Bihar     | UP |
125 | B4        | Vadodra   | Gujarat |
126 | B5        | Bhopal    | MP |
127 +-----+-----+-----+
128 5 rows in set (0.00 sec)

```

Queries:

1. List the employee details along with the branch name in order of employee number.

```

mysql> select * from employee_master INNER JOIN branch_master
on(employee_master.branch_id=branch_master.branch_id) order by (emp_no);

```

```

+-----+-----+-----+-----+-----+-----+-----+
-----+

```

```

136 | emp_no | ename      | branch_id | salary | dept      | manger_id | branch_id |
137 | bname    |
137 +-----+-----+-----+-----+-----+-----+-----+-----+
137 +-----+
138 | E1      | Aniket     | B1         | 10000  | Loan      | E3         | B1         |
138 Sangvi   |
139 | E2      | Himanshu   | B1         | 150000 | Admin     | NULL       | B1         |
139 Sangvi   |
140 | E3      | Vinit      | B1         | 15000  | Admin     | E2         | B1         |
140 Sangvi   |
141 | E4      | Prajyot    | B2         | 15000  | Admin     | E2         | B2         |
141 Vadgoan  |
142 | E5      | Abhay      | B2         | 10000  | NULL      | E4         | B2         |
142 Vadgoan  |
143 | E6      | Shubham    | B3         | 15000  | Admin     | E2         | B3         |
143 Aundh    |
144 | E7      | Nirmala    | B3         | 10000  | Investment | E6         | B3         |
144 Aundh    |
145 | E8      | Abhishek   | B4         | 12000  | Admin     | E2         | B4         |
145 Baramati |
146 | E9      | Abhinav    | B4         | 10000  | Loan      | E8         | B4         |
146 Baramati |
147 | E10     | Vijay      | B5         | 12000  | Admin     | E2         | B5         |
147 Amegaon  |
148 +-----+-----+-----+-----+-----+-----+-----+-----+
148 +-----+
149 10 rows in set (0.00 sec)
150

```

2.List the details of employee who belong to admin department along the branch name to which they belong.

```

152 mysql> select * from employee_master INNER JOIN branch_master on
153 (employee_master.branch_id=branch_master.branch_id and employee_master.dept='Admin');
154 +-----+-----+-----+-----+-----+-----+-----+-----+
155 | emp_no | ename      | branch_id | salary | dept  | manger_id | branch_id | bname    |
156 +-----+-----+-----+-----+-----+-----+-----+-----+
157 | E10    | Vijay      | B5         | 12000  | Admin | E2         | B5         | Amegaon  |
158 | E2     | Himanshu   | B1         | 150000 | Admin | NULL       | B1         | Sangvi   |
159 | E3     | Vinit      | B1         | 15000  | Admin | E2         | B1         | Sangvi   |
160 | E4     | Prajyot    | B2         | 15000  | Admin | E2         | B2         | Vadgoan  |
161 | E6     | Shubham    | B3         | 15000  | Admin | E2         | B3         | Aundh    |
162 | E8     | Abhishek   | B4         | 12000  | Admin | E2         | B4         | Baramati |
163 +-----+-----+-----+-----+-----+-----+-----+-----+
164 6 rows in set (0.00 sec)
165

```

3.List the employee name along with phone number and city.

```

168 mysql> select employee_master.ename,contact_details.phnno,emp_address.city from
169 employee_master INNER JOIN contact_details on
170 (contact_details.emp_id=employee_master.emp_no) INNER JOIN emp_address on
171 (emp_address.emp_id=employee_master.emp_no);
172 +-----+-----+-----+
173 | ename    | phnno      | city      |
174 +-----+-----+-----+
175 | Aniket   | 1234567890 | Pune      |
176 | Vijay    | 758492013  | Vadodra   |
177 | Himanshu | 987654321  | Pune      |
178 | Vinit    | NULL       | Mumbai    |
179 | Prajyot  | NULL       | Mumbai    |
180 | Abhay    | 1234509876 | Nahsik    |
181 | Shubham  | 678905321  | NULL      |
182 | Nirmala  | NULL       | NULL      |
183 | Abhishek | NULL       | NULL      |
184 | Abhinav  | 123457890  | NULL      |
185 +-----+-----+-----+
186 10 rows in set (0.00 sec)

```

```

185 4.List the employee name with the contact details if have or not have any.
186
187 mysql> select employee_master.ename,contact_details.email_id,contact_details.phnno
    from employee_master LEFT OUTER JOIN contact_details on
    (contact_details.emp_id=employee_master.emp_no);
188 +-----+-----+-----+
189 | ename      | email_id | phnno      |
190 +-----+-----+-----+
191 | Aniket     | aniket@  | 1234567890 |
192 | Himanshu   | himanshu@ | 987654321  |
193 | Vinit      | vinit@   | NULL       |
194 | Prajyot    | prajyot@ | NULL       |
195 | Abhay      | NULL     | 1234509876 |
196 | Shubham    | NULL     | 678905321  |
197 | Nirmala    | NULL     | NULL       |
198 | Abhishek   | NULL     | NULL       |
199 | Abhinav    | abhinav@ | 123457890  |
200 | Vijay      | NULL     | NULL       |
201 +-----+-----+-----+
202 10 rows in set (0.00 sec)
203
204 5.List the employee's contact details irrespective of whether they are working or have
    left.
205
206 The records of employee number E1 and E10 are deleted.
207
208 mysql> select
    employee_master.emp_no,employee_master.ename,contact_details.email_id,contact_details
    .phnno from employee_master RIGHT OUTER JOIN contact_details on
    (contact_details.emp_id=employee_master.emp_no);
209 +-----+-----+-----+-----+
210 | emp_no | ename      | email_id | phnno      |
211 +-----+-----+-----+-----+
212 | NULL   | NULL       | aniket@  | 1234567890 |
213 | E2     | Himanshu   | himanshu@ | 987654321  |
214 | E3     | Vinit      | vinit@   | NULL       |
215 | E4     | Prajyot    | prajyot@ | NULL       |
216 | E5     | Abhay      | NULL     | 1234509876 |
217 | E6     | Shubham    | NULL     | 678905321  |
218 | E7     | Nirmala    | NULL     | NULL       |
219 | E8     | Abhishek   | NULL     | NULL       |
220 | E9     | Abhinav    | abhinav@ | 123457890  |
221 | NULL   | NULL       | vijay@   | 758492013  |
222 +-----+-----+-----+-----+
223 10 rows in set (0.00 sec)
224
225 6.Retrieve the employee name and their respective manger name.
226
227 mysql> select A.ename,B.ename as Manger_Name from employee_master A ,
    employee_master B where A.manger_id=B.emp_no;
228 +-----+-----+
229 | ename      | Manger_Name |
230 +-----+-----+
231 | Vinit      | Himanshu    |
232 | Prajyot    | Himanshu    |
233 | Abhay      | Prajyot     |
234 | Shubham    | Himanshu    |
235 | Nirmala    | Shubham     |
236 | Abhishek   | Himanshu    |
237 | Abhinav    | Abhishek    |
238 +-----+-----+
239 7 rows in set (0.00 sec)
240
241 7.List the employee names who works at vadgoan branch along with the city of that
    employee.
242
243 mysql> select ename,city,bname from employee_master INNER JOIN emp_address INNER
    JOIN branch_master on( bname='Vadgoan' and emp_no=emp_id and
    employee_master.branch_id=branch_master.branch_id);

```

```

244 +-----+-----+-----+
245 | ename   | city   | bname   |
246 +-----+-----+-----+
247 | Prajyot | Mumbai | Vadgoan |
248 | Abhay   | Nahsik | Vadgoan |
249 +-----+-----+-----+
250 2 rows in set (0.00 sec)
251

```

8. List the employee details along with the branch name using natural join.

```

254 mysql> select * from employee_master NATURAL JOIN branch_master;
255 +-----+-----+-----+-----+-----+-----+-----+
256 | branch_id | emp_no | ename   | salary | dept      | manger_id | bname   |
257 +-----+-----+-----+-----+-----+-----+-----+
258 | B1        | E2     | Himanshu | 150000 | Admin     | NULL      | Sangvi  |
259 | B1        | E3     | Vinit    | 15000  | Admin     | E2        | Sangvi  |
260 | B2        | E4     | Prajyot  | 15000  | Admin     | E2        | Vadgoan |
261 | B2        | E5     | Abhay    | 10000  | NULL      | E4        | Vadgoan |
262 | B3        | E6     | Shubham  | 15000  | Admin     | E2        | Aundh   |
263 | B3        | E7     | Nirmala  | 10000  | Investment | E6        | Aundh   |
264 | B4        | E8     | Abhishek | 12000  | Admin     | E2        | Baramati |
265 | B4        | E9     | Abhinav  | 10000  | Loan      | E8        | Baramati |
266 +-----+-----+-----+-----+-----+-----+-----+
267 8 rows in set (0.00 sec)
268

```

9. Find the employee who works at vadgoan branch with salaries more than 10000 and list the employee name with the streets they live in.

```

271 mysql> select ename,street,salary from employee_master INNER JOIN emp_address INNER
272 JOIN branch_master on (emp_no=emp_id) and (branch_master.branch_id =
273 employee_master.branch_id)and(bname='Vadgoan') and salary>=10000;
274 +-----+-----+-----+
275 | ename   | street | salary |
276 +-----+-----+-----+
277 | Prajyot | ABC    | 15000  |
278 | Abhay   | NULL   | 10000  |
279 +-----+-----+-----+
280 2 rows in set (0.00 sec)
281

```

10. Find the employee who live and works in same city.

```

282 mysql> select ename,emp_address.city,branch_address.city from employee_master INNER
283 JOIN emp_address INNER JOIN branch_address on(emp_no=emp_id and
284 emp_address.city=branch_address.city);
285 +-----+-----+-----+
286 | ename   | city   | city   |
287 +-----+-----+-----+
288 | Himanshu | Pune   | Pune   |
289 +-----+-----+-----+
290 1 row in set (0.00 sec)
291

```

11. Find the employee whose salary are more than the salary of everybody who works at vadgoan branch.

```

292 mysql> select ename from employee_master where salary > all (select salary from
293 employee_master INNER JOIN branch_master ON bname='Vadgoan' and
294 branch_master.branch_id=employee_master.branch_id);
295 +-----+
296 | ename   |
297 +-----+
298 | Himanshu |
299 +-----+
300 1 row in set (0.00 sec)
301

```

12. Create a total_employee view which will contain total employees.

```

302 mysql> create view total_emp_view as select
303 emp_no,ename,employee_master.branch_id,bname,salary,dept,manger_id from
304 employee_master INNER JOIN branch_master on(

```

```

303 branch_master.branch_id=employee_master.branch_id);
304 Query OK, 0 rows affected (0.01 sec)

```

```

305 mysql> show tables;
306 +-----+
307 | Tables_in_bank |
308 +-----+
309 | branch_address |
310 | branch_master  |
311 | contact_details|
312 | emp_address    |
313 | employee_master|
314 | total_emp_view |
315 +-----+
316 7 rows in set (0.00 sec)

```

```

317
318 mysql> select * from total_emp_view;
319 +-----+-----+-----+-----+-----+-----+-----+
320 | emp_no | ename   | branch_id | bname   | salary | dept   | manger_id |
321 +-----+-----+-----+-----+-----+-----+-----+
322 | E2     | Himanshu | B1        | Sangvi  | 150000 | Admin  | NULL      |
323 | E3     | Vinit   | B1        | Sangvi  | 15000  | Admin  | E2        |
324 | E4     | Prajyot | B2        | Vadgoan | 15000  | Admin  | E2        |
325 | E5     | Abhay   | B2        | Vadgoan | 10000  | NULL   | E4        |
326 | E6     | Shubham | B3        | Aundh   | 15000  | Admin  | E2        |
327 | E7     | Nirmala | B3        | Aundh   | 10000  | Investment | E6      |
328 | E8     | Abhishek | B4       | Baramati | 12000  | Admin  | E2        |
329 | E9     | Abhinav | B4        | Baramati | 10000  | Loan   | E8        |
330 +-----+-----+-----+-----+-----+-----+-----+
331 8 rows in set (0.00 sec)

```

13. Update total_employee view which will contain total employees at each branch.

```

333
334
335 mysql> alter view total_emp_view as select count(distinct emp_no),bname from
employee_master INNER JOIN branch_master on(
employee_master.branch_id=branch_master.branch_id) group by(bname);
336 Query OK, 0 rows affected (0.01 sec)

```

```

337
338 mysql> select * from total_emp_view;
339 +-----+-----+
340 | count(distinct emp_no) | bname   |
341 +-----+-----+
342 | 2 | Aundh |
343 | 2 | Baramati |
344 | 2 | Sangvi |
345 | 2 | Vadgoan |
346 +-----+-----+
347 4 rows in set (0.00 sec)

```

14. List the branch name where employee have a salary more than 100000.

```

349
350
351 mysql> select bname,salary from employee_master INNER JOIN branch_master on
(branch_master.branch_id=employee_master.branch_id and salary>=100000);
352 +-----+-----+
353 | bname | salary |
354 +-----+-----+
355 | Sangvi | 150000 |
356 +-----+-----+
357 1 row in set (0.00 sec)

```

15. Create a View which will show the average salary and the total salary at each branch.

```

358
359
360 mysql> create view total_emp_view as select bname,avg(salary) AS
Average_Salary,sum(salary) AS Total_Salary from employee_master INNER JOIN
branch_master on (employee_master.branch_id=branch_master.branch_id) group by(bname);
361 Query OK, 0 rows affected (0.01 sec)
362
363
364 mysql> show tables;
365 +-----+

```

```

366 | Tables_in_bank |
367 +-----+
368 | branch_address |
369 | branch_master  |
370 | contact_details|
371 | emp_address    |
372 | employee_master|
373 | total_emp_view |
374 +-----+
375 6 rows in set (0.00 sec)

```

```

376
377 mysql> select * from total_emp_view;
378 +-----+-----+-----+
379 | bname      | Average_Salary | Total_Salary |
380 +-----+-----+-----+
381 | Sangvi     | 82500.0000     | 165000       |
382 | Vadgoan    | 12500.0000     | 25000        |
383 | Aundh      | 12500.0000     | 25000        |
384 | Baramati   | 11000.0000     | 22000        |
385 +-----+-----+-----+
386 4 rows in set (0.00 sec)

```

```

387
388 16.Find the employee who do not have a job at vadgoan branch.
389

```

```

390 mysql> select emp_no,ename,salary,dept,manger_id,branch_master.branch_id,bname from
employee_master INNER JOIN branch_master on (
branch_master.branch_id=employee_master.branch_id and bname!='Vadgoan');
391 +-----+-----+-----+-----+-----+-----+-----+
392 | emp_no | ename      | salary | dept      | manger_id | branch_id | bname      |
393 +-----+-----+-----+-----+-----+-----+-----+
394 | E2     | Himanshu   | 150000 | Admin     | NULL      | B1        | Sangvi     |
395 | E3     | Vinit      | 15000  | Admin     | E2        | B1        | Sangvi     |
396 | E6     | Shubham    | 15000  | Admin     | E2        | B3        | Aundh      |
397 | E7     | Nirmala    | 10000  | Investment| E6        | B3        | Aundh      |
398 | E8     | Abhishek   | 12000  | Admin     | E2        | B4        | Baramati   |
399 | E9     | Abhinav    | 10000  | Loan      | E8        | B4        | Baramati   |
400 +-----+-----+-----+-----+-----+-----+-----+
401 6 rows in set (0.00 sec)

```