

1. Write a query to display the name (first_name, last_name) and salary for all employees whose salary is not in the range \$10,000 through \$15,000.

Sample table: employees----Create a employee table and insert few of records from below of it and write the queries for the all the questions below.

EMPLOYEE_ID	FIRST_NAME	LAST_NAME	EMAIL	PHONE_NUMBER	HIRE_DATE	JOB_ID	SALARY	COMMISSION_PCT	MANAGER_ID	DEPARTMENT_ID
100	Steven	King	SKING	515.123.4567	1987-06-17	AD_PRES	24000.00	0.00	0	90
101	Neena	Kochhar	NKOCHHAR	515.123.4568	1987-06-18	AD_VP	17000.00	0.00	100	90
102	Lex	De Haan	LDEHAAN	515.123.4569	1987-06-19	AD_VP	17000.00	0.00	100	90
103	Alexander	Hunold	AHUNOLD	590.423.4567	1987-06-20	IT_PROG	9000.00	0.00	102	60
104	Bruce	Ernst	BERNST	590.423.4568	1987-06-21	IT_PROG	6000.00	0.00	103	60
105	David	Austin	DAUSTIN	590.423.4569	1987-06-22	IT_PROG	4800.00	0.00	103	60
106	Valli	Pataballa	VPATABAL	590.423.4560	1987-06-23	IT_PROG	4800.00	0.00	103	60
107	Diana	Lorentz	DLORENTZ	590.423.5567	1987-06-24	IT_PROG	4200.00	0.00	103	60
108	Nancy	Greenberg	NGREENBE	515.124.4569	1987-06-25	FI_MGR	12000.00	0.00	101	100
109	Daniel	Faviet	DFAVIET	515.124.4169	1987-06-26	FI_ACCOUNT	9000.00	0.00	108	100
110	John	Chen	JCHEN	515.124.4269	1987-06-27	FI_ACCOUNT	8200.00	0.00	108	100
111	Ismael	Sciarra	ISCIARRA	515.124.4369	1987-06-28	FI_ACCOUNT	7700.00	0.00	108	100
112	Jose Manuel	Urman	JMURMAN	515.124.4469	1987-06-29	FI_ACCOUNT	7800.00	0.00	108	100
113	Luis	Popp	LPOPP	515.124.4567	1987-06-30	FI_ACCOUNT	6900.00	0.00	108	100

114	Den	Raphaely	DRAPHEAL	515.127.4561
1987-07-01	PU_MAN	11000.00	0.00	100
30				
115	Alexander	Khoo	AKHOO	515.127.4562
1987-07-02	PU_CLERK	3100.00	0.00	114
30				
116	Shellli	Baida	SBAIDA	515.127.4563
1987-07-03	PU_CLERK	2900.00	0.00	114
30				
117	Sigal	Tobias	STOBIAS	515.127.4564
1987-07-04	PU_CLERK	2800.00	0.00	114
30				
118	Guy	Himuro	GHIMURO	515.127.4565
1987-07-05	PU_CLERK	2600.00	0.00	114
30				
119	Karen	Colmenares	KCOLMENA	515.127.4566
1987-07-06	PU_CLERK	2500.00	0.00	114
30				
120	Matthew	Weiss	MWEISS	650.123.1234
1987-07-07	ST_MAN	8000.00	0.00	100
50				
121	Adam	Fripp	AFRIPP	650.123.2234
1987-07-08	ST_MAN	8200.00	0.00	100
50				
122	Payam	Kaufling	PKAUFLIN	650.123.3234
1987-07-09	ST_MAN	7900.00	0.00	100
50				
123	Shanta	Vollman	SVOLLMAN	650.123.4234
1987-07-10	ST_MAN	6500.00	0.00	100
50				
124	Kevin	Mourgous	KMOURGOS	650.123.5234
1987-07-11	ST_MAN	5800.00	0.00	100
50				
125	Julia	Nayer	JNAYER	650.124.1214
1987-07-12	ST_CLERK	3200.00	0.00	120
50				
126	Irene	Mikkilineni	IMIKKILI	650.124.1224
1987-07-13	ST_CLERK	2700.00	0.00	120
50				
127	James	Landry	JLANDRY	650.124.1334
1987-07-14	ST_CLERK	2400.00	0.00	120
50				
128	Steven	Markle	SMARKLE	650.124.1434
1987-07-15	ST_CLERK	2200.00	0.00	120
50				
129	Laura	Bissot	LBISSOT	650.124.5234
1987-07-16	ST_CLERK	3300.00	0.00	121
50				
130	Mozhe	Atkinson	MATKINSO	650.124.6234
1987-07-17	ST_CLERK	2800.00	0.00	121
50				
131	James	Marlow	JAMRLOW	650.124.7234
1987-07-18	ST_CLERK	2500.00	0.00	121
50				
132	TJ	Olson	TJOLSON	650.124.8234
1987-07-19	ST_CLERK	2100.00	0.00	121
50				
133	Jason	Mallin	JMALLIN	650.127.1934
1987-07-20	ST_CLERK	3300.00	0.00	122
50				

134	Michael	Rogers	MROGERS	650.127.1834
1987-07-21	ST_CLERK	2900.00	0.00	122
50				
135	Ki	Gee	KGEE	650.127.1734
1987-07-22	ST_CLERK	2400.00	0.00	122
50				
136	Hazel	Philtanker	HPHILTAN	650.127.1634
1987-07-23	ST_CLERK	2200.00	0.00	122
50				
137	Renske	Ladwig	RLADWIG	650.121.1234
1987-07-24	ST_CLERK	3600.00	0.00	123
50				
138	Stephen	Stiles	SSTILES	650.121.2034
1987-07-25	ST_CLERK	3200.00	0.00	123
50				
139	John	Seo	JSEO	650.121.2019
1987-07-26	ST_CLERK	2700.00	0.00	123
50				
140	Joshua	Patel	JPATEL	650.121.1834
1987-07-27	ST_CLERK	2500.00	0.00	123
50				
141	Trenna	Rajs	TRAJS	650.121.8009
1987-07-28	ST_CLERK	3500.00	0.00	124
50				
142	Curtis	Davies	CDAVIES	650.121.2994
1987-07-29	ST_CLERK	3100.00	0.00	124
50				
143	Randall	Matos	RMATOS	650.121.2874
1987-07-30	ST_CLERK	2600.00	0.00	124
50				
144	Peter	Vargas	PVARGAS	650.121.2004
1987-07-31	ST_CLERK	2500.00	0.00	124
50				
145	John	Russell	JRUSSEL	011.44.1344.429268
1987-08-01	SA_MAN	14000.00	0.40	100
80				
146	Karen	Partners	KPARTNER	011.44.1344.467268
1987-08-02	SA_MAN	13500.00	0.30	100
80				
147	Alberto	Errazuriz	AERRAZUR	011.44.1344.429278
1987-08-03	SA_MAN	12000.00	0.30	100
80				
148	Gerald	Cambrault	GCAMBRAU	011.44.1344.619268
1987-08-04	SA_MAN	11000.00	0.30	100
80				
149	Eleni	Zlotkey	EZLOTKEY	011.44.1344.429018
1987-08-05	SA_MAN	10500.00	0.20	100
80				
150	Peter	Tucker	PTUCKER	011.44.1344.129268
1987-08-06	SA_REP	10000.00	0.30	145
80				
151	David	Bernstein	DBERNSTE	011.44.1344.345268
1987-08-07	SA_REP	9500.00	0.25	145
80				
152	Peter	Hall	PHALL	011.44.1344.478968
1987-08-08	SA_REP	9000.00	0.25	145
80				
153	Christopher	Olsen	COLSEN	011.44.1344.498718
1987-08-09	SA_REP	8000.00	0.20	145
80				

154	Nanette	Cambrault	NCAMBRAU	011.44.1344.987668
1987-08-10	SA_REP	7500.00	0.20	145
80				
155	Oliver	Tuvault	OTUVAULT	011.44.1344.486508
1987-08-11	SA_REP	7000.00	0.15	145
80				
156	Janette	King	JKING	011.44.1345.429268
1987-08-12	SA_REP	10000.00	0.35	146
80				
157	Patrick	Sully	PSULLY	011.44.1345.929268
1987-08-13	SA_REP	9500.00	0.35	146
80				
158	Allan	McEwen	AMCEWEN	011.44.1345.829268
1987-08-14	SA_REP	9000.00	0.35	146
80				
159	Lindsey	Smith	LSMITH	011.44.1345.729268
1987-08-15	SA_REP	8000.00	0.30	146
80				
160	Louise	Doran	LDORAN	011.44.1345.629268
1987-08-16	SA_REP	7500.00	0.30	146
80				
161	Sarath	Sewall	SSEWALL	011.44.1345.529268
1987-08-17	SA_REP	7000.00	0.25	146
80				
162	Clara	Vishney	CVISHNEY	011.44.1346.129268
1987-08-18	SA_REP	10500.00	0.25	147
80				
163	Danielle	Greene	DGREENE	011.44.1346.229268
1987-08-19	SA_REP	9500.00	0.15	147
80				
164	Mattea	Marvins	MMARVINS	011.44.1346.329268
1987-08-20	SA_REP	7200.00	0.10	147
80				
165	David	Lee	DLEE	011.44.1346.529268
1987-08-21	SA_REP	6800.00	0.10	147
80				
166	Sundar	Ande	SANDE	011.44.1346.629268
1987-08-22	SA_REP	6400.00	0.10	147
80				
167	Amit	Banda	ABANDA	011.44.1346.729268
1987-08-23	SA_REP	6200.00	0.10	147
80				
168	Lisa	Ozer	LOZER	011.44.1343.929268
1987-08-24	SA_REP	11500.00	0.25	148
80				
169	Harrison	Bloom	HBLOOM	011.44.1343.829268
1987-08-25	SA_REP	10000.00	0.20	148
80				
170	Tayler	Fox	TFOX	011.44.1343.729268
1987-08-26	SA_REP	9600.00	0.20	148
80				
171	William	Smith	WSMITH	011.44.1343.629268
1987-08-27	SA_REP	7400.00	0.15	148
80				
172	Elizabeth	Bates	EBATES	011.44.1343.529268
1987-08-28	SA_REP	7300.00	0.15	148
80				
173	Sundita	Kumar	SKUMAR	011.44.1343.329268
1987-08-29	SA_REP	6100.00	0.10	148
80				

174	Ellen	Abel	EABEL	011.44.1644.429267
1987-08-30	SA_REP	11000.00	0.30	149
80				
175	Alyssa	Hutton	AHUTTON	011.44.1644.429266
1987-08-31	SA_REP	8800.00	0.25	149
80				
176	Jonathon	Taylor	JTAYLOR	011.44.1644.429265
1987-09-01	SA_REP	8600.00	0.20	149
80				
177	Jack	Livingston	JLIVINGS	011.44.1644.429264
1987-09-02	SA_REP	8400.00	0.20	149
80				
178	Kimberely	Grant	KGRANT	011.44.1644.429263
1987-09-03	SA_REP	7000.00	0.15	149
0				
179	Charles	Johnson	CJOHNSON	011.44.1644.429262
1987-09-04	SA_REP	6200.00	0.10	149
80				
180	Winston	Taylor	WTAYLOR	650.507.9876
1987-09-05	SH_CLERK	3200.00	0.00	120
50				
181	Jean	Fleaur	JFLEAUR	650.507.9877
1987-09-06	SH_CLERK	3100.00	0.00	120
50				
182	Martha	Sullivan	MSULLIVA	650.507.9878
1987-09-07	SH_CLERK	2500.00	0.00	120
50				
183	Girard	Geoni	GGEONI	650.507.9879
1987-09-08	SH_CLERK	2800.00	0.00	120
50				
184	Nandita	Sarchand	NSARCHAN	650.509.1876
1987-09-09	SH_CLERK	4200.00	0.00	121
50				
185	Alexis	Bull	ABULL	650.509.2876
1987-09-10	SH_CLERK	4100.00	0.00	121
50				
186	Julia	Dellinger	JDELLING	650.509.3876
1987-09-11	SH_CLERK	3400.00	0.00	121
50				
187	Anthony	Cabrio	ACABRIO	650.509.4876
1987-09-12	SH_CLERK	3000.00	0.00	121
50				
188	Kelly	Chung	KCHUNG	650.505.1876
1987-09-13	SH_CLERK	3800.00	0.00	122
50				
189	Jennifer	Dilly	JDILLY	650.505.2876
1987-09-14	SH_CLERK	3600.00	0.00	122
50				
190	Timothy	Gates	TGATES	650.505.3876
1987-09-15	SH_CLERK	2900.00	0.00	122
50				
191	Randall	Perkins	RPERKINS	650.505.4876
1987-09-16	SH_CLERK	2500.00	0.00	122
50				
192	Sarah	Bell	SBELL	650.501.1876
1987-09-17	SH_CLERK	4000.00	0.00	123
50				
193	Britney	Everett	BEVERETT	650.501.2876
1987-09-18	SH_CLERK	3900.00	0.00	123
50				

194 Samuel	McCain	SMCCAIN	650.501.3876
1987-09-19 SH_CLERK	3200.00	0.00	123
50			
195 Vance	Jones	VJONES	650.501.4876
1987-09-20 SH_CLERK	2800.00	0.00	123
50			
196 Alana	Walsh	AWALSH	650.507.9811
1987-09-21 SH_CLERK	3100.00	0.00	124
50			
197 Kevin	Feeney	KFEENEY	650.507.9822
1987-09-22 SH_CLERK	3000.00	0.00	124
50			
198 Donald	OConnell	DOCONNEL	650.507.9833
1987-09-23 SH_CLERK	2600.00	0.00	124
50			
199 Douglas	Grant	DGRANT	650.507.9844
1987-09-24 SH_CLERK	2600.00	0.00	124
50			
200 Jennifer	Whalen	JWHALEN	515.123.4444
1987-09-25 AD_ASST	4400.00	0.00	101
10			
201 Michael	Hartstein	MHARTSTE	515.123.5555
1987-09-26 MK_MAN	13000.00	0.00	100
20			
202 Pat	Fay	PFAY	603.123.6666
1987-09-27 MK_REP	6000.00	0.00	201
20			
203 Susan	Mavris	SMAVRIS	515.123.7777
1987-09-28 HR_REP	6500.00	0.00	101
40			
204 Hermann	Baer	HBAER	515.123.8888
1987-09-29 PR_REP	10000.00	0.00	101
70			
205 Shelley	Higgins	SHIGGINS	515.123.8080
1987-09-30 AC_MGR	12000.00	0.00	101
110			
206 William	Gietz	WGIETZ	515.123.8181
1987-10-01 AC_ACCOUNT	8300.00	0.00	205
110			
+-----+-----+-----+-----+			
+-----+-----+-----+-----+			
-----+			

Query :

```
select first_name,last_name,salary from employees where salary not between 10000
and 15000;
```

Output :

```
mysql> select first_name,last_name,salary from employees where salary not
-> between 10000 and 15000;
```

first_name	last_name	salary
Steven	King	24000
Neena	Kochhar	17000
Lex	De Haan	17000
Alexander	Hunold	9000
Bruce	Ernst	6000
David	Austin	4800
Matthew	Weiss	8000
Adam	Fripp	8200
Payam	Kaufling	7900
Peter	Vargas	2500
Peter A	Vargas	2500
Peter B	Vargas	2500
Peter C	Vargas	2500
Peter D	Vargas	2500
Peter E	Vargas	2500
Peter F	Vargas	2500
Peter ♦	Vargas	2500

```
17 rows in set (0.02 sec)
```

2. Write a query to display the name (first_name, last_name) and department ID of all employees in departments 30 or 100 in ascending order.

Sample table: employees

Query :

```
select first_name,last_name,department_id from employees where department_id
in(30, 100) order by department_id;
```

Output :

```
mysql> select first_name,last_name,department_id from employees where
-> department_id in(30, 100) order by department_id;
```

first_name	last_name	department_id
Alex	khoo	30
Jhonson	lee	100
Kean	Scout	100

```
3 rows in set (0.00 sec)
```

3. Write a query to display the name (first_name, last_name) and salary for all employees whose salary is not in the range \$10,000 through \$15,000 and are in department 30 or 100

Sample table: employees

Query :

```
select first_name,last_name,salary from employees where salary not between  
(10000 and 15000) and department_id in(30,100) ;
```

Output :

```
mysql> select first_name,last_name,salary from employees where salary  
-> not between (10000 and 15000) and department_id in(30,100) ;
```

first_name	last_name	salary
Steven	King	24000
Neena	Kochhar	17000
Lex	De Haan	17000
Alexander	Hunold	9000
Bruce	Ernst	6000
David	Austin	4800
Matthew	Weiss	8000
Adam	Fripp	8200
Payam	Kaufling	7900
Peter	Vargas	2500
Peter A	Vargas	2500
Peter B	Vargas	2500
Peter C	Vargas	2500
Peter D	Vargas	2500
Peter E	Vargas	2500
Peter F	Vargas	2500
Peter ♦	Vargas	2500
Alex	khoo	8000
Jhonsen	lee	9000
Kean	Scout	9000

```
20 rows in set (0.00 sec)
```

4. Write a query to display the name (first_name, last_name) and hire date for all employees who were hired in 1987

Sample table: employees

Query :

```
select first_name,last_name,hire_date from employees where year(hire_date) like  
1987;
```


Output :

```
mysql> select first_name,last_name,hire_date from employees where
-> year(hire_date) like 1987;
```

first_name	last_name	hire_date
Neena	Kochhar	1987-06-18
Lex	De Haan	1987-06-19
Alexander	Hunold	1987-06-20
Bruce	Ernst	1987-06-21
David	Austin	1987-06-22
Matthew	Weiss	1987-07-07
Adam	Fripp	1987-07-08
Payam	Kaufling	1987-07-09
Peter	Vargas	1987-07-31
Peter A	Vargas	1987-07-31
Peter B	Vargas	1987-07-31
Peter C	Vargas	1987-07-31
Peter D	Vargas	1987-07-31
Peter E	Vargas	1987-07-31
Peter F	Vargas	1987-07-31
Peter ♦	Vargas	1987-07-31
Alex	khoo	1987-07-31
Jhonsen	lee	1987-07-31
Kean	Scout	1987-07-31

19 rows in set (0.02 sec)

5. Write a query to display the first_name of all employees who have both "b" and "c" in their first name.

Sample table: employees

Query :

```
select first_name from employees where first_name like '%b%' and first_name like
'%c%';
```

Output :

```
mysql> select first_name from employees where first_name like '%b%'
-> and first_name like '%c%';
```

first_name
Bruce

1 row in set (0.00 sec)

6. Write a query to display the last name, job, and salary for all employees whose job is that of a Programmer or a Shipping Clerk, and whose salary is not equal to \$4,500, \$10,000, or \$15,000.

Sample table: employees

Query :

```
select last_name,job_id,salary from employees where job_id like 'It_prog' or 'pu_clerk' and salary not in(4500,10000,15000);
```

Output :

```
mysql> select last_name,job_id,salary from employees where job_id like
-> 'It_prog' or 'pu_clerk' and salary not in(4500,10000,15000);
+-----+-----+-----+
| last_name | job_id | salary |
+-----+-----+-----+
| Hunold   | IT_PROG | 9000   |
| Ernst    | IT_PROG | 6000   |
| Austin   | IT_PROG | 4800   |
| Lee      | IT_PROG | 9000   |
| Scut     | IT_PROG | 9000   |
+-----+-----+-----+
5 rows in set, 1 warning (0.00 sec)
```

7. Write a query to display the last name of employees whose names have exactly 6 characters.

Sample table: employee

Query :

```
select last_name from employees where length(last_name)=6;
```

Output :

```
mysql> select last_name from employees where length(last_name)=6;
+-----+
| last_name |
+-----+
| Hunold    |
| Austin    |
| Vargas    |
| Vargas    |
| Vargas    |
| Vargas    |
| Vargas    |
| Vargas    |
| Vargas    |
| Vargas    |
+-----+
10 rows in set (0.00 sec)
```

8. Write a query to display the last name of employees having 'e' as the third character.

Sample table: employees

Query :

```
select last_name from employees where last_name like '__e%';
```

Output :

```
mysql> select last_name from employees where last_name like '__e%';
+-----+
| last_name |
+-----+
| lee       |
+-----+
1 row in set (0.00 sec)
```

9. Write a query to display the jobs/designations available in the employees table.

Sample table: employees

Query :

```
select distinct(job_id) from employees;
```

Output :

```
mysql> select distinct(job_id) from employees;
+-----+
| job_id |
+-----+
| AD_PRES |
| AD_VP  |
| IT_PROG |
| ST_MAN |
| ST_CLERK |
+-----+
5 rows in set (0.02 sec)
```

10. Write a query to display the name (first_name, last_name), salary and PF (15% of salary) of all employees.

Sample table: employees

Query :

```
select first_name,last_name,salary,(15*salary/100) as pf from employees;
```

Output :

```
mysql> select first_name,last_name,salary,(15*salary/100) as pf from
-> employees;
```

first_name	last_name	salary	pf
Steven	King	24000	3600
Neena	Kochhar	17000	2550
Lex	De Haan	17000	2550
Alexander	Hunold	9000	1350
Bruce	Ernst	6000	900
David	Austin	4800	720
Matthew	Weiss	8000	1200
Adam	Fripp	8200	1230
Payam	Kaufling	7900	1185
Peter	Vargas	2500	375
Peter A	Vargas	2500	375
Peter B	Vargas	2500	375
Peter C	Vargas	2500	375
Peter D	Vargas	2500	375
Peter E	Vargas	2500	375
Peter F	Vargas	2500	375
Peter ♦	Vargas	2500	375
Alex	khoo	8000	1200
Jhonsen	Lee	9000	1350
Kean	Scout	9000	1350

20 rows in set (0.01 sec)

11. Write a query to select all record from employees where last name in 'BLAKE', 'SCOTT', 'KING' and 'FORD'.

Sample table: employees

Query :

```
select * from employees where last_name in ('BLAKE', 'SCOTT', 'KING', 'FORD');
```

Output :

```
mysql> select * from employees where last_name in ('BLAKE', 'SCOTT', 'KING', 'FORD');
```

EMPLOYEE_ID	FIRST_NAME	LAST_NAME	EMAIL	PHONE_NUMBER	HIRE_DATE	JOB_ID	SALARY	COMMISSION_PCT	MANAGER_ID	DEPARTMENT_ID
100	Steven	King	SKING	971123546	2003-06-17	AD_PRES	24000	0	0	90

1 row in set (0.00 sec)