

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	Shelli	Baida	SBIDA	515.127.4563	
1987-07-03	PU_CLERK	2900.00		0.00	114	
30						
	117	Sigal	Tobias	STOBIA	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	Mourgos	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	JAMLOW	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						

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

```
+-----+-----+-----+
| first_name | last_name | salary |
+-----+-----+-----+
| Bruce      | Ernst     | 6000   |
| Steven     | King      | 24000  |
| Neena      | Kochhar   | 17000  |
```

Lex	De Haan	17000
David	Austin	4800
Valli	Pataballa	4800
Diana	Lorentz	4200
Daniel	Faviet	9000
John	Chen	8200
Jose Manuel	Urman	7800
Ismael	Sciarra	7700
Alexander	Khoo	3100
Luis	Popp	6900
Alexander	Hunold	9000

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

14 rows in set (0.00 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

```
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
+-----+-----+-----+
Alexander Khoo 30
Den Raphaely 30
Nancy Greenberg 100
Daniel Faviet 100
John Chen 100
Jose Manuel Urman 100
Ismael Sciarra 100
Luis Popp 100
+-----+-----+-----+

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

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
Bruce	Ernst	6000
Steven	King	24000
Neena	Kochhar	17000
Lex	De Haan	17000
David	Austin	4800
Valli	Pataballa	4800
Diana	Lorentz	4200
Nancy	Greenberg	12000
Daniel	Faviet	9000
John	Chen	8200
Jose Manuel	Urman	7800
Ismael	Sciarra	7700
Alexander	Khoo	3100
Luis	Popp	6900
Den	Raphaely	11000

| Alexander | Hunold | 9000 |

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

16 rows in set (0.01 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

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

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

| first_name | last_name | hire_date |

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

| Bruce | Ernst | 1987-06-21 |

| Steven | King | 1987-06-17 |

| Neena | Kochhar | 1987-06-18 |

| Lex | De Haan | 1987-06-19 |

| David | Austin | 1987-06-22 |

| Valli | Pataballa | 1987-06-23 |

| Diana | Lorentz | 1987-06-24 |

| Nancy | Greenberg | 1987-06-25 |

| Daniel | Faviet | 1987-06-26 |

| John | Chen | 1987-06-27 |

| Jose Manuel | Urman | 1987-06-29 |

| Ismael | Sciarra | 1987-06-28 |

| Alexander | Khoo | 1987-07-02 |

Luis	Popp	1987-06-30
Den	Raphaely	1987-07-01
Alexander	Hunold	1987-06-20

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

16 rows in set (0.01 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

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

+-----+

| first_name |

+-----+

| Bruce |

+-----+

1 row in set (0.01 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

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 |

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

```
| Ernst | IT_PROG | 6000 |
```

```
+-----+-----+-----+
```

1 row in set, 1 warning (0.00 sec)

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

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

```
+-----+
```

```
| last_name |
```

```
+-----+
```

```
| Faviet |
```

```
| Khoo |
```

```
+-----+
```

2 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

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

```
+-----+
```

```
| last_name |
```

```
+-----+
```

```
| Greenberg |
```

```
| Chen |
```

```
+-----+
```

2 rows in set (0.00 sec)

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

Sample table: employees

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

```
+-----+
| job_id |
+-----+
| IT_PROG |
| AD_PRES |
| AD_VP   |
| IT_PROG |
| FI_MGR   |
| FI_ACCOUNT |
| FI_ACCOUNT |
| FI_ACCOUNT |
| PU_CLERK |
| PU_MAN   |
| IT_PROG |
+-----+
```

11 rows in set (0.00 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

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

```
+-----+-----+-----+-----+
| first_name | last_name | salary | pf |
+-----+-----+-----+-----+
| Bruce      | Ernst     | 6000   | 900 |
| Steven     | King      | 24000  | 3600 |
| Neena      | Kochhar   | 17000  | 2550 |
| Lex        | De Haan   | 17000  | 2550 |
| David      | Austin    | 4800   | 720 |
```

$$+ \text{-----} + \text{-----} + \text{-----} + \text{-----} +$$

16 rows in set (0.04 sec)

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

Sample table: employees

```
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 | 5151234567   | 1987-06-17 | AD_PRES | 24000 |                |          0 |          90 |
+-----+-----+-----+-----+-----+-----+-----+-----+
1 row in set (0.00 sec)
```