

Assignment -21 Apoorva

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

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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	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	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	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				

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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				

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	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						

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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	Fleur	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				

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

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	

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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 |

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```
| 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 |
```

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

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```
| 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 |
```

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Valli	Pataballa	4800	720	
Diana	Lorentz	4200	630	
Nancy	Greenberg	12000	1800	
Daniel	Faviet	9000	1350	
John	Chen	8200	1230	
Jose Manuel	Urman	7800	1170	
Ismael	Sciarra	7700	1155	
Alexander	Khoo	3100	465	
Luis	Popp	6900	1035	
Den	Raphaely	11000	1650	
Alexander	Hunold	9000	1350	

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

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			

1 row in set (0.00 sec)