



Java Enterprise Edition

ANUDIP FOUNDATION



MySQL Restricting and Sorting data**Time: 80 Min**

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

Sample table: employees

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	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				

```

SELECT first_name, last_name, salary
FROM employees
WHERE salary NOT BETWEEN 10000 AND 15000;

```

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

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	SBAIDA	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				

SELECT first_name, last_name, department_id

FROM employees

WHERE department_id **IN** (30, 100)

ORDER BY department_id **ASC**;

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

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	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				

SELECT first_name, last_name, salary, department_id

FROM employees

WHERE salary **NOT BETWEEN** 10000 **AND** 15000

AND department_id **IN** (30, 100);

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

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	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				

Code:

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SELECT first_name, last_name, hire_date
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FROM employees
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WHERE YEAR(hire_date) LIKE '1987%';
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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

	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 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

Code:


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SELECT first_name
FROM employees
WHERE first_name LIKE '%b%'
AND first_name LIKE '%c%';

```

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

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 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

Code:

SELECT last_name, job_id, salary

FROM employees

WHERE job_id **IN** ('IT_PROG', 'SH_CLERK')

AND salary **NOT IN** (4500,10000, 15000);

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

Sample table: employees

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 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

Code:

```
SELECT last_name FROM employees WHERE last_name LIKE '_____';
```

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

Sample table: employees

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	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				

Code:

```
SELECT last_name FROM employees WHERE last_name LIKE '__e%';
```

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

Sample table: employees

	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	Faviat	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 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

Code:

```
SELECT DISTINCT job_id FROM employees;
```

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

Sample table: employees

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 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

Code:

```
SELECT first_name, last_name, salary, salary*.15 PF from employees;
```

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

Sample table: employees

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	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							

Code:

SELECT *

FROM employees

WHERE last_name IN('JONES', 'BLAKE', 'SCOTT', 'KING', 'FORD');