NAME SAHIL KUMAR
CMS 023-22-0242

1.Write a query to display EMPLOYEE_ID, FIRST_NAME, and SALARY of employees whose SALARY is less than $3000.

```
 select employee_id,salary,first_name from employees where salary<3000;
+-------------+---------+------------+
| employee_id | salary  | first_name |
+-------------+---------+------------+
|         116 | 2900.00 | Shelli     |
|         117 | 2800.00 | Sigal      |
|         118 | 2600.00 | Guy        |
|         119 | 2500.00 | Karen      |
|         126 | 2700.00 | Irene      |
|         127 | 2400.00 | James      |
|         128 | 2200.00 | Steven     |
|         130 | 2800.00 | Mozhe      |
|         131 | 2500.00 | James      |
|         132 | 2100.00 | TJ         |
|         134 | 2900.00 | Michael    |
|         135 | 2400.00 | Ki         |
|         136 | 2200.00 | Hazel      |
|         139 | 2700.00 | John       |
|         140 | 2500.00 | Joshua     |
|         143 | 2600.00 | Randall    |
|         144 | 2500.00 | Peter      |
|         182 | 2500.00 | Martha     |
|         183 | 2800.00 | Girard     |
|         190 | 2900.00 | Timothy    |
|         191 | 2500.00 | Randall    |
|         195 | 2800.00 | Vance      |
|         198 | 2600.00 | Donald     |
|         199 | 2600.00 | Douglas    |
+-------------+---------+------------+
24 rows in set (0.09 sec)
```

2.Write a query to display FIRST_NAME, LASTNAME of all employees whose first name starts with letter ‘A’.

```
select last_name,first_name from employees where first_name like 'A%';
+-----------+------------+
| last_name | first_name |
+-----------+------------+
| Hunold    | Alexander  |
| Khoo      | Alexander  |
| Fripp     | Adam       |
| Errazuriz | Alberto    |
| McEwen    | Allan      |
| Banda     | Amit       |
| Hutton    | Alyssa     |
| Bull      | Alexis     |
| Cabrio    | Anthony    |
| Walsh     | Alana      |
+-----------+------------+
```

10 rows in set (0.00 sec)

3.Write a query to display FIRST_NAME, JOB_ID, DEPARTMENT_ID of employees who are either PU_CLERK or belongs to MANAGER_ID = 114.

```
 select job_id,department_id,first_name from employees where job_id="pu_clerk"or
manager_id=114;
+----------+---------------+------------+
| job_id   | department_id | first_name |
+----------+---------------+------------+
| PU_CLERK |          30 | Alexander  |
| PU_CLERK |          30 | Shelli     |
| PU_CLERK |          30 | Sigal      |
| PU_CLERK |          30 | Guy        |
| PU_CLERK |          30 | Karen      |
+----------+---------------+------------+
```

5 rows in set (0.11 sec)

4.Write a query to display EMPLOYEE_ID, FIRST_NAME, and SALARY of employees whose salaries lies in the range of $1500 to $3000;

```
 select employee_id,salary,first_name from employees where salary between 1500 and 3000;
+-------------+---------+------------+
| employee_id | salary  | first_name |
+-------------+---------+------------+
|         116 | 2900.00 | Shelli     |
|         117 | 2800.00 | Sigal      |
|         118 | 2600.00 | Guy        |
|         119 | 2500.00 | Karen      |
|         126 | 2700.00 | Irene      |
|         127 | 2400.00 | James      |
|         128 | 2200.00 | Steven     |
|         130 | 2800.00 | Mozhe      |
|         131 | 2500.00 | James      |
|         132 | 2100.00 | TJ         |
|         134 | 2900.00 | Michael    |
|         135 | 2400.00 | Ki         |
|         136 | 2200.00 | Hazel      |
|         139 | 2700.00 | John       |
|         140 | 2500.00 | Joshua     |
|         143 | 2600.00 | Randall    |
|         144 | 2500.00 | Peter      |
|         182 | 2500.00 | Martha     |
|         183 | 2800.00 | Girard     |
|         187 | 3000.00 | Anthony    |
|         190 | 2900.00 | Timothy    |
|         191 | 2500.00 | Randall    |
|         195 | 2800.00 | Vance      |
|         197 | 3000.00 | Kevin      |
|         198 | 2600.00 | Donald     |
|         199 | 2600.00 | Douglas    |
+-------------+---------+------------+
```

26 rows in set (0.00 sec)

5.Write a query to display EMPLOYEE_ID, FIRST_NAME, and SALARY of employees whose commission is empty.

```
SELECT employee_id, first_name, salary
  -> FROM employees
  -> WHERE commission_pct IS NULL;
+-------------+-------------+----------+
| employee_id | first_name  | salary   |
+-------------+-------------+----------+
|         100 | Steven      | 24000.00 |
|         101 | Neena       | 17000.00 |
|         102 | Lex         | 17000.00 |
|         103 | Alexander   |  9000.00 |
|         104 | Bruce       |  6000.00 |
|         105 | David       |  4800.00 |
|         106 | Valli       |  4800.00 |
|         107 | Diana       |  4200.00 |
|         108 | Nancy       | 12000.00 |
|         109 | Daniel      |  9000.00 |
|         110 | John        |  8200.00 |
|         111 | Ismael      |  7700.00 |
|         112 | Jose Manuel |  7800.00 |
|         113 | Luis        |  6900.00 |
|         114 | Den         | 11000.00 |
|         115 | Alexander   |  3100.00 |
|         116 | Shelli      |  2900.00 |
|         117 | Sigal       |  2800.00 |
|         118 | Guy         |  2600.00 |
|         119 | Karen       |  2500.00 |
|         120 | Matthew     |  8000.00 |
|         121 | Adam        |  8200.00 |
|         122 | Payam       |  7900.00 |
|         123 | Shanta      |  6500.00 |
|         124 | Kevin       |  5800.00 |
|         125 | Julia       |  3200.00 |
|         126 | Irene       |  2700.00 |
|         127 | James       |  2400.00 |
|         128 | Steven      |  2200.00 |
|         129 | Laura       |  3300.00 |
|         130 | Mozhe       |  2800.00 |
|         131 | James       |  2500.00 |
|         132 | TJ          |  2100.00 |
|         133 | Jason       |  3300.00 |
|         134 | Michael     |  2900.00 |
|         135 | Ki          |  2400.00 |
|         136 | Hazel       |  2200.00 |
|         137 | Renske      |  3600.00 |
|         138 | Stephen     |  3200.00 |
|         139 | John        |  2700.00 |
|         140 | Joshua      |  2500.00 |
|         141 | Trenna      |  3500.00 |
|         142 | Curtis      |  3100.00 |
|         143 | Randall     |  2600.00 |
|         144 | Peter       |  2500.00 |
|         180 | Winston     |  3200.00 |
|         181 | Jean        |  3100.00 |
```

```
|       182 | Martha     |  2500.00 |
|       183 | Girard     |  2800.00 |
|       184 | Nandita    |  4200.00 |
|       185 | Alexis     |  4100.00 |
|       186 | Julia      |  3400.00 |
|       187 | Anthony    |  3000.00 |
|       188 | Kelly      |  3800.00 |
|       189 | Jennifer   |  3600.00 |
|       190 | Timothy    |  2900.00 |
|       191 | Randall    |  2500.00 |
|       192 | Sarah      |  4000.00 |
|       193 | Britney    |  3900.00 |
|       194 | Samuel     |  3200.00 |
|       195 | Vance      |  2800.00 |
|       196 | Alana      |  3100.00 |
|       197 | Kevin      |  3000.00 |
|       198 | Donald     |  2600.00 |
|       199 | Douglas    |  2600.00 |
|       200 | Jennifer   |  4400.00 |
|       201 | Michael    | 13000.00 |
|       202 | Pat        |  6000.00 |
|       203 | Susan      |  6500.00 |
|       204 | Hermann    | 10000.00 |
|       205 | Shelley    | 12000.00 |
|       206 | William    |  8300.00 |
+-------------+-------------+----------+
72 rows in set (0.00 sec)
```

6. Write a query to display first names of all employees that end with alphabet ‘N’.

```
select first_name from employees where first_name like '%N' ;
+------------+
| first_name |
+------------+
| Steven     |
| John       |
| Den        |
| Karen      |
| Kevin      |
| Steven     |
| Jason      |
| Stephen    |
| John       |
| John       |
| Karen      |
| Allan      |
| Harrison   |
| Ellen      |
| Jonathon   |
| Winston    |
| Jean       |
| Kevin      |
| Susan      |
| Hermann    |
+------------+
20 rows in set (0.00 sec)
```

7.Write a query to display FIRST_NAME, JOB_ID, DEPARTMENT_ID of employees who are not PU_CLERK.

```
select job_id,department_id,first_name from employees where job_id!="pu_clerk";
```

job_id	department_id	first_name
AD_PRES	90	Steven
AD_VP	90	Neena
AD_VP	90	Lex
IT_PROG	60	Alexander
IT_PROG	60	Bruce
IT_PROG	60	David
IT_PROG	60	Valli
IT_PROG	60	Diana
FI_MGR	100	Nancy
FI_ACCOUNT	100	Daniel
FI_ACCOUNT	100	John
FI_ACCOUNT	100	Ismael
FI_ACCOUNT	100	Jose Manuel
FI_ACCOUNT	100	Luis
PU_MAN	30	Den
ST_MAN	50	Matthew
ST_MAN	50	Adam
ST_MAN	50	Payam
ST_MAN	50	Shanta
ST_MAN	50	Kevin
ST_CLERK	50	Julia
ST_CLERK	50	Irene
ST_CLERK	50	James
ST_CLERK	50	Steven
ST_CLERK	50	Laura
ST_CLERK	50	Mozhe
ST_CLERK	50	James
ST_CLERK	50	TJ
ST_CLERK	50	Jason
ST_CLERK	50	Michael
ST_CLERK	50	Ki
ST_CLERK	50	Hazel
ST_CLERK	50	Renske
ST_CLERK	50	Stephen
ST_CLERK	50	John
ST_CLERK	50	Joshua
ST_CLERK	50	Trenna
ST_CLERK	50	Curtis
ST_CLERK	50	Randall
ST_CLERK	50	Peter
SA_MAN	80	John
SA_MAN	80	Karen
SA_MAN	80	Alberto
SA_MAN	80	Gerald
SA_MAN	80	Eleni
SA_REP	80	Peter
SA_REP	80	David
SA_REP	80	Peter
SA_REP	80	Christopher
SA_REP	80	Nanette
SA_REP	80	Oliver

SA_REP	80	Janette
SA_REP	80	Patrick
SA_REP	80	Allan
SA_REP	80	Lindsey
SA_REP	80	Louise
SA_REP	80	Sarath
SA_REP	80	Clara
SA_REP	80	Danielle
SA_REP	80	Mattea
SA_REP	80	David
SA_REP	80	Sundar
SA_REP	80	Amit
SA_REP	80	Lisa
SA_REP	80	Harrison
SA_REP	80	Tayler
SA_REP	80	William
SA_REP	80	Elizabeth
SA_REP	80	Sundita
SA_REP	80	Ellen
SA_REP	80	Alyssa
SA_REP	80	Jonathon
SA_REP	80	Jack
SA_REP	NULL	Kimberely
SA_REP	80	Charles
SH_CLERK	50	Winston
SH_CLERK	50	Jean
SH_CLERK	50	Martha
SH_CLERK	50	Girard
SH_CLERK	50	Nandita
SH_CLERK	50	Alexis
SH_CLERK	50	Julia
SH_CLERK	50	Anthony
SH_CLERK	50	Kelly
SH_CLERK	50	Jennifer
SH_CLERK	50	Timothy
SH_CLERK	50	Randall
SH_CLERK	50	Sarah
SH_CLERK	50	Britney
SH_CLERK	50	Samuel
SH_CLERK	50	Vance
SH_CLERK	50	Alana
SH_CLERK	50	Kevin
SH_CLERK	50	Donald
SH_CLERK	50	Douglas
AD_ASST	10	Jennifer
MK_MAN	20	Michael
MK_REP	20	Pat
HR_REP	40	Susan
PR_REP	70	Hermann
AC_MGR	110	Shelley
AC_ACCOUNT	110	William

102 rows in set (0.00 sec)

8.Write a query to display EMPLOYEE_ID, FIRST_NAME, and SALARY of those employees who do not have salaries of $3300, $3200, $2200.

```
 select employee_id,salary,first_name from employees where
(salary!=3300)and(salary!=3200)and(salary!=2200);
+-------------+----------+-------------+
| employee_id | salary   | first_name  |
+-------------+----------+-------------+
|         100 | 24000.00 | Steven      |
|         101 | 17000.00 | Neena       |
|         102 | 17000.00 | Lex         |
|         103 |  9000.00 | Alexander   |
|         104 |  6000.00 | Bruce       |
|         105 |  4800.00 | David       |
|         106 |  4800.00 | Valli       |
|         107 |  4200.00 | Diana       |
|         108 | 12000.00 | Nancy       |
|         109 |  9000.00 | Daniel      |
|         110 |  8200.00 | John        |
|         111 |  7700.00 | Ismael      |
|         112 |  7800.00 | Jose Manuel |
|         113 |  6900.00 | Luis        |
|         114 | 11000.00 | Den         |
|         115 |  3100.00 | Alexander   |
|         116 |  2900.00 | Shelli      |
|         117 |  2800.00 | Sigal       |
|         118 |  2600.00 | Guy         |
|         119 |  2500.00 | Karen       |
|         120 |  8000.00 | Matthew     |
|         121 |  8200.00 | Adam        |
|         122 |  7900.00 | Payam       |
|         123 |  6500.00 | Shanta      |
|         124 |  5800.00 | Kevin       |
|         126 |  2700.00 | Irene       |
|         127 |  2400.00 | James       |
|         130 |  2800.00 | Mozhe       |
|         131 |  2500.00 | James       |
|         132 |  2100.00 | TJ          |
|         134 |  2900.00 | Michael     |
|         135 |  2400.00 | Ki          |
|         137 |  3600.00 | Renske      |
|         139 |  2700.00 | John        |
|         140 |  2500.00 | Joshua      |
|         141 |  3500.00 | Trenna      |
|         142 |  3100.00 | Curtis      |
|         143 |  2600.00 | Randall     |
|         144 |  2500.00 | Peter       |
|         145 | 14000.00 | John        |
|         146 | 13500.00 | Karen       |
|         147 | 12000.00 | Alberto     |
|         148 | 11000.00 | Gerald      |
|         149 | 10500.00 | Eleni       |
|         150 | 10000.00 | Peter       |
|         151 |  9500.00 | David       |
|         152 |  9000.00 | Peter       |
|         153 |  8000.00 | Christopher |
|         154 |  7500.00 | Nanette     |
|         155 |  7000.00 | Oliver      |
|         156 | 10000.00 | Janette     |
|         157 |  9500.00 | Patrick     |
```

158	9000.00	Allan
159	8000.00	Lindsey
160	7500.00	Louise
161	7000.00	Sarath
162	10500.00	Clara
163	9500.00	Danielle
164	7200.00	Mattea
165	6800.00	David
166	6400.00	Sundar
167	6200.00	Amit
168	11500.00	Lisa
169	10000.00	Harrison
170	9600.00	Tayler
171	7400.00	William
172	7300.00	Elizabeth
173	6100.00	Sundita
174	11000.00	Ellen
175	8800.00	Alyssa
176	8600.00	Jonathon
177	8400.00	Jack
178	7000.00	Kimberely
179	6200.00	Charles
181	3100.00	Jean
182	2500.00	Martha
183	2800.00	Girard
184	4200.00	Nandita
185	4100.00	Alexis
186	3400.00	Julia
187	3000.00	Anthony
188	3800.00	Kelly
189	3600.00	Jennifer
190	2900.00	Timothy
191	2500.00	Randall
192	4000.00	Sarah
193	3900.00	Britney
195	2800.00	Vance
196	3100.00	Alana
197	3000.00	Kevin
198	2600.00	Donald
199	2600.00	Douglas
200	4400.00	Jennifer
201	13000.00	Michael
202	6000.00	Pat
203	6500.00	Susan
204	10000.00	Hermann
205	12000.00	Shelley
206	8300.00	William

99 rows in set (0.00 sec)

9.Write a query to display names of those employees whose first name starts with ‘A’ and ends with ‘N’.

```
select first_name from employees where first_name like 'a%n';
```

first_name
Allan

+------------+
1 row in set (0.04 sec)

10.Write a query to display the list of employee names that have letters ‘LA’ in their names

```
select first_name from employees where first_name like 'la%'or first_name like '%la'or first_name like '%la%';
```

```
+------------+
| first_name |
+------------+
| Laura      |
| Allan      |
| Clara      |
| Alana      |
| Douglas    |
+------------+
5 rows in set (0.00 sec)
```

11.Write a query to display the EMPLOYEE_ID, FIRST_NAME, and SALARY of employees. In that, the highest paid employee should display first and lowest paid should display last.

```
select first_name,employee_id,salary from employees order by salary desc ;
```

```
+-------------+-------------+----------+
| first_name  | employee_id | salary   |
+-------------+-------------+----------+
| Steven      |         100 | 24000.00 |
| Neena       |         101 | 17000.00 |
| Lex         |         102 | 17000.00 |
| John        |         145 | 14000.00 |
| Karen       |         146 | 13500.00 |
| Michael     |         201 | 13000.00 |
| Nancy       |         108 | 12000.00 |
| Alberto     |         147 | 12000.00 |
| Shelley     |         205 | 12000.00 |
| Lisa        |         168 | 11500.00 |
| Den         |         114 | 11000.00 |
| Gerald      |         148 | 11000.00 |
| Ellen       |         174 | 11000.00 |
| Eleni       |         149 | 10500.00 |
| Clara       |         162 | 10500.00 |
| Peter       |         150 | 10000.00 |
| Janette     |         156 | 10000.00 |
| Harrison    |         169 | 10000.00 |
| Hermann     |         204 | 10000.00 |
| Tayler      |         170 |  9600.00 |
| David       |         151 |  9500.00 |
| Patrick     |         157 |  9500.00 |
| Danielle    |         163 |  9500.00 |
| Alexander   |         103 |  9000.00 |
| Daniel      |         109 |  9000.00 |
| Peter       |         152 |  9000.00 |
| Allan       |         158 |  9000.00 |
| Alyssa      |         175 |  8800.00 |
| Jonathon    |         176 |  8600.00 |
| Jack        |         177 |  8400.00 |
| William     |         206 |  8300.00 |
| John        |         110 |  8200.00 |
| Adam        |         121 |  8200.00 |
| Matthew     |         120 |  8000.00 |
| Christopher |         153 |  8000.00 |
```

Lindsey	159	8000.00
Payam	122	7900.00
Jose Manuel	112	7800.00
Ismael	111	7700.00
Nanette	154	7500.00
Louise	160	7500.00
William	171	7400.00
Elizabeth	172	7300.00
Mattea	164	7200.00
Oliver	155	7000.00
Sarath	161	7000.00
Kimberely	178	7000.00
Luis	113	6900.00
David	165	6800.00
Shanta	123	6500.00
Susan	203	6500.00
Sundar	166	6400.00
Amit	167	6200.00
Charles	179	6200.00
Sundita	173	6100.00
Bruce	104	6000.00
Pat	202	6000.00
Kevin	124	5800.00
David	105	4800.00
Valli	106	4800.00
Jennifer	200	4400.00
Diana	107	4200.00
Nandita	184	4200.00
Alexis	185	4100.00
Sarah	192	4000.00
Britney	193	3900.00
Kelly	188	3800.00
Renske	137	3600.00
Jennifer	189	3600.00
Trenna	141	3500.00
Julia	186	3400.00
Laura	129	3300.00
Jason	133	3300.00
Julia	125	3200.00
Stephen	138	3200.00
Winston	180	3200.00
Samuel	194	3200.00
Alexander	115	3100.00
Curtis	142	3100.00
Jean	181	3100.00
Alana	196	3100.00
Anthony	187	3000.00
Kevin	197	3000.00
Shelli	116	2900.00
Michael	134	2900.00
Timothy	190	2900.00
Sigal	117	2800.00
Mozhe	130	2800.00
Girard	183	2800.00
Vance	195	2800.00
Irene	126	2700.00
John	139	2700.00

Guy	118	2600.00
Randall	143	2600.00
Donald	198	2600.00
Douglas	199	2600.00
Karen	119	2500.00
James	131	2500.00
Joshua	140	2500.00
Peter	144	2500.00
Martha	182	2500.00
Randall	191	2500.00
James	127	2400.00
Ki	135	2400.00
Steven	128	2200.00
Hazel	136	2200.00
TJ	132	2100.00

107 rows in set (0.06 sec)

12.Write a query to display FIRST_NAME of employees that have "a" in the second position.

```
select first_name from employees where first_name like '_a%';
```

first_name
David
Valli
Nancy
Daniel
Karen
Matthew
Payam
James
Laura
James
Jason
Hazel
Randall
Karen
David
Nanette
Janette
Patrick
Sarath
Danielle
Mattea
David
Harrison
Tayler
Jack
Martha
Nandita
Randall
Sarah
Samuel
Vance
Pat

32 rows in set (0.74 sec)

13.Write a query to display EMPLOYEE_ID, FIRST_NAME, and SALARY of employees whose salaries do not lies in the range of $1500 to $3000;

```
 select employee_id,salary,first_name from employees where (salary between 0 and
1500)or(salary>3000);
```

employee_id	salary	first_name
100	24000.00	Steven
101	17000.00	Neena
102	17000.00	Lex
103	9000.00	Alexander
104	6000.00	Bruce
105	4800.00	David
106	4800.00	Valli
107	4200.00	Diana
108	12000.00	Nancy
109	9000.00	Daniel
110	8200.00	John
111	7700.00	Ismael
112	7800.00	Jose Manuel
113	6900.00	Luis
114	11000.00	Den
115	3100.00	Alexander
120	8000.00	Matthew
121	8200.00	Adam
122	7900.00	Payam
123	6500.00	Shanta
124	5800.00	Kevin
125	3200.00	Julia
129	3300.00	Laura
133	3300.00	Jason
137	3600.00	Renske
138	3200.00	Stephen
141	3500.00	Trenna
142	3100.00	Curtis
145	14000.00	John
146	13500.00	Karen
147	12000.00	Alberto
148	11000.00	Gerald
149	10500.00	Eleni
150	10000.00	Peter
151	9500.00	David
152	9000.00	Peter
153	8000.00	Christopher
154	7500.00	Nanette
155	7000.00	Oliver
156	10000.00	Janette
157	9500.00	Patrick
158	9000.00	Allan
159	8000.00	Lindsey
160	7500.00	Louise
161	7000.00	Sarath
162	10500.00	Clara
163	9500.00	Danielle
164	7200.00	Mattea
165	6800.00	David

```
|       166 |  6400.00 | Sundar      |
|       167 |  6200.00 | Amit        |
|       168 | 11500.00 | Lisa        |
|       169 | 10000.00 | Harrison    |
|       170 |  9600.00 | Tayler      |
|       171 |  7400.00 | William     |
|       172 |  7300.00 | Elizabeth   |
|       173 |  6100.00 | Sundita     |
|       174 | 11000.00 | Ellen       |
|       175 |  8800.00 | Alyssa      |
|       176 |  8600.00 | Jonathon    |
|       177 |  8400.00 | Jack        |
|       178 |  7000.00 | Kimberely   |
|       179 |  6200.00 | Charles     |
|       180 |  3200.00 | Winston     |
|       181 |  3100.00 | Jean        |
|       184 |  4200.00 | Nandita     |
|       185 |  4100.00 | Alexis      |
|       186 |  3400.00 | Julia       |
|       188 |  3800.00 | Kelly       |
|       189 |  3600.00 | Jennifer    |
|       192 |  4000.00 | Sarah       |
|       193 |  3900.00 | Britney     |
|       194 |  3200.00 | Samuel      |
|       196 |  3100.00 | Alana       |
|       200 |  4400.00 | Jennifer    |
|       201 | 13000.00 | Michael     |
|       202 |  6000.00 | Pat         |
|       203 |  6500.00 | Susan       |
|       204 | 10000.00 | Hermann     |
|       205 | 12000.00 | Shelley     |
|       206 |  8300.00 | William     |
+-------------+----------+-------------+
81 rows in set (0.00 sec)
```

14.Write a query to display FIRST_NAME, LAST_NAME and DEPARTMENT_ID of all employees in departments 30 or 100 in ascending order.

```
select first_name,last_name,department_id from employees where department_id in(30,100) order
by department_id asc;
+-------------+------------+---------------+
| first_name  | last_name  | department_id |
+-------------+------------+---------------+
| Den         | Raphaely   |            30 |
| Alexander   | Khoo       |            30 |
| Shelli      | Baida      |            30 |
| Sigal       | Tobias     |            30 |
| Guy         | Himuro     |            30 |
| Karen       | Colmenares |            30 |
| Nancy       | Greenberg  |           100 |
| Daniel      | Faviet     |           100 |
| John        | Chen       |           100 |
| Ismael      | Sciarra    |           100 |
| Jose Manuel | Urman      |           100 |
| Luis        | Popp       |           100 |
+-------------+------------+---------------+
12 rows in set (0.05 sec)
```

15.Write a query to display 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.

```
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  |
+-------------+------------+---------+
| Alexander   | Khoo       | 3100.00 |
| Shelli      | Baida      | 2900.00 |
| Sigal       | Tobias     | 2800.00 |
| Guy         | Himuro     | 2600.00 |
| Karen       | Colmenares | 2500.00 |
| Daniel      | Faviet     | 9000.00 |
| John        | Chen       | 8200.00 |
| Ismael      | Sciarra    | 7700.00 |
| Jose Manuel | Urman      | 7800.00 |
| Luis        | Popp       | 6900.00 |
+-------------+------------+---------+
10 rows in set (0.00 sec)
```

16.Write a query to display FIRST_NAME, LAST_NAME and HIRE_DATE for all employees who were hired in 1987.

```
select first_name,last_name,hire_date from employees where hire_date like '1987_____';
   +------------+-----------+------------+
   | first_name | last_name | hire_date  |
   +------------+-----------+------------+
   | Steven     | King      | 1987-06-17 |
   | Jennifer   | Whalen    | 1987-09-17 |
   +------------+-----------+------------+
   2 rows in set (0.00 sec)

   mysql>  select first_name,last_name,hire_date from employees where hire_date like '1987%';
   +------------+-----------+------------+
   | first_name | last_name | hire_date  |
   +------------+-----------+------------+
   | Steven     | King      | 1987-06-17 |
   | Jennifer   | Whalen    | 1987-09-17 |
   +------------+-----------+------------+
   2 rows in set (0.00 sec)
```

17.Write a query to display the LAST_NAME of employees whose LAST_NAME have exactly 6 characters.

```
select last_name from employees where last_name like '_____';
+-----------+
| last_name |
+-----------+
| Hunold    |
| Austin    |
| Faviet    |
| Tobias    |
| Himuro    |
| Landry    |
| Markle    |
| Bissot    |
| Marlow    |
| Mallin    |
| Rogers    |
| Ladwig    |
| Stiles    |
```

| Davies |
| Vargas |
| Tucker |
| McEwen |
| Sewall |
| Greene |
| Hutton |
| Taylor |
| Taylor |
| Fleaur |
| Cabrio |
| McCain |
| Feeney |
| Whalen |
| Mavris |
+----------+
28 rows in set (0.04 sec)

18.Write a query to display FIRST_NAME, SALARY and PF (15% of salary) of all employees.

```
SELECT FIRST_NAME, SALARY, SALARY * 0.15 AS PF
  -> FROM employees;
```

FIRST_NAME	SALARY	PF
Steven	24000.00	3600.0000
Neena	17000.00	2550.0000
Lex	17000.00	2550.0000
Alexander	9000.00	1350.0000
Bruce	6000.00	900.0000
David	4800.00	720.0000
Valli	4800.00	720.0000
Diana	4200.00	630.0000
Nancy	12000.00	1800.0000
Daniel	9000.00	1350.0000
John	8200.00	1230.0000
Ismael	7700.00	1155.0000
Jose Manuel	7800.00	1170.0000
Luis	6900.00	1035.0000
Den	11000.00	1650.0000
Alexander	3100.00	465.0000
Shelli	2900.00	435.0000
Sigal	2800.00	420.0000
Guy	2600.00	390.0000
Karen	2500.00	375.0000
Matthew	8000.00	1200.0000
Adam	8200.00	1230.0000
Payam	7900.00	1185.0000
Shanta	6500.00	975.0000
Kevin	5800.00	870.0000
Julia	3200.00	480.0000
Irene	2700.00	405.0000
James	2400.00	360.0000
Steven	2200.00	330.0000
Laura	3300.00	495.0000
Mozhe	2800.00	420.0000
James	2500.00	375.0000
TJ	2100.00	315.0000
Jason	3300.00	495.0000

Michael	2900.00	435.0000
Ki	2400.00	360.0000
Hazel	2200.00	330.0000
Renske	3600.00	540.0000
Stephen	3200.00	480.0000
John	2700.00	405.0000
Joshua	2500.00	375.0000
Trenna	3500.00	525.0000
Curtis	3100.00	465.0000
Randall	2600.00	390.0000
Peter	2500.00	375.0000
John	14000.00	2100.0000
Karen	13500.00	2025.0000
Alberto	12000.00	1800.0000
Gerald	11000.00	1650.0000
Eleni	10500.00	1575.0000
Peter	10000.00	1500.0000
David	9500.00	1425.0000
Peter	9000.00	1350.0000
Christopher	8000.00	1200.0000
Nanette	7500.00	1125.0000
Oliver	7000.00	1050.0000
Janette	10000.00	1500.0000
Patrick	9500.00	1425.0000
Allan	9000.00	1350.0000
Lindsey	8000.00	1200.0000
Louise	7500.00	1125.0000
Sarath	7000.00	1050.0000
Clara	10500.00	1575.0000
Danielle	9500.00	1425.0000
Mattea	7200.00	1080.0000
David	6800.00	1020.0000
Sundar	6400.00	960.0000
Amit	6200.00	930.0000
Lisa	11500.00	1725.0000
Harrison	10000.00	1500.0000
Tayler	9600.00	1440.0000
William	7400.00	1110.0000
Elizabeth	7300.00	1095.0000
Sundita	6100.00	915.0000
Ellen	11000.00	1650.0000
Alyssa	8800.00	1320.0000
Jonathon	8600.00	1290.0000
Jack	8400.00	1260.0000
Kimberely	7000.00	1050.0000
Charles	6200.00	930.0000
Winston	3200.00	480.0000
Jean	3100.00	465.0000
Martha	2500.00	375.0000
Girard	2800.00	420.0000
Nandita	4200.00	630.0000
Alexis	4100.00	615.0000
Julia	3400.00	510.0000
Anthony	3000.00	450.0000
Kelly	3800.00	570.0000
Jennifer	3600.00	540.0000
Timothy	2900.00	435.0000

Randall	2500.00	375.0000
Sarah	4000.00	600.0000
Britney	3900.00	585.0000
Samuel	3200.00	480.0000
Vance	2800.00	420.0000
Alana	3100.00	465.0000
Kevin	3000.00	450.0000
Donald	2600.00	390.0000
Douglas	2600.00	390.0000
Jennifer	4400.00	660.0000
Michael	13000.00	1950.0000
Pat	6000.00	900.0000
Susan	6500.00	975.0000
Hermann	10000.00	1500.0000
Shelley	12000.00	1800.0000
William	8300.00	1245.0000

107 rows in set (0.20 sec)

19. Write a query to display FIRST_NAME, SALARY and commission amount (% of salary) of all employees.

```
SELECT first_name, salary, salary * IFNULL(commission_pct, 0) AS commission_amount FROM employees;
```

first_name	salary	commission_amount
Steven	24000.00	0.0000
Neena	17000.00	0.0000
Lex	17000.00	0.0000
Alexander	9000.00	0.0000
Bruce	6000.00	0.0000
David	4800.00	0.0000
Valli	4800.00	0.0000
Diana	4200.00	0.0000
Nancy	12000.00	0.0000
Daniel	9000.00	0.0000
John	8200.00	0.0000
Ismael	7700.00	0.0000
Jose Manuel	7800.00	0.0000
Luis	6900.00	0.0000
Den	11000.00	0.0000
Alexander	3100.00	0.0000
Shelli	2900.00	0.0000
Sigal	2800.00	0.0000
Guy	2600.00	0.0000
Karen	2500.00	0.0000
Matthew	8000.00	0.0000
Adam	8200.00	0.0000
Payam	7900.00	0.0000
Shanta	6500.00	0.0000
Kevin	5800.00	0.0000
Julia	3200.00	0.0000
Irene	2700.00	0.0000
James	2400.00	0.0000
Steven	2200.00	0.0000
Laura	3300.00	0.0000
Mozhe	2800.00	0.0000
James	2500.00	0.0000

TJ	2100.00	0.0000
Jason	3300.00	0.0000
Michael	2900.00	0.0000
Ki	2400.00	0.0000
Hazel	2200.00	0.0000
Renske	3600.00	0.0000
Stephen	3200.00	0.0000
John	2700.00	0.0000
Joshua	2500.00	0.0000
Trenna	3500.00	0.0000
Curtis	3100.00	0.0000
Randall	2600.00	0.0000
Peter	2500.00	0.0000
John	14000.00	5600.0000
Karen	13500.00	4050.0000
Alberto	12000.00	3600.0000
Gerald	11000.00	3300.0000
Eleni	10500.00	2100.0000
Peter	10000.00	3000.0000
David	9500.00	2375.0000
Peter	9000.00	2250.0000
Christopher	8000.00	1600.0000
Nanette	7500.00	1500.0000
Oliver	7000.00	1050.0000
Janette	10000.00	3500.0000
Patrick	9500.00	3325.0000
Allan	9000.00	3150.0000
Lindsey	8000.00	2400.0000
Louise	7500.00	2250.0000
Sarath	7000.00	1750.0000
Clara	10500.00	2625.0000
Danielle	9500.00	1425.0000
Mattea	7200.00	720.0000
David	6800.00	680.0000
Sundar	6400.00	640.0000
Amit	6200.00	620.0000
Lisa	11500.00	2875.0000
Harrison	10000.00	2000.0000
Tayler	9600.00	1920.0000
William	7400.00	1110.0000
Elizabeth	7300.00	1095.0000
Sundita	6100.00	610.0000
Ellen	11000.00	3300.0000
Alyssa	8800.00	2200.0000
Jonathon	8600.00	1720.0000
Jack	8400.00	1680.0000
Kimberely	7000.00	1050.0000
Charles	6200.00	620.0000
Winston	3200.00	0.0000
Jean	3100.00	0.0000
Martha	2500.00	0.0000
Girard	2800.00	0.0000
Nandita	4200.00	0.0000
Alexis	4100.00	0.0000
Julia	3400.00	0.0000
Anthony	3000.00	0.0000
Kelly	3800.00	0.0000

Jennifer	3600.00	0.0000
Timothy	2900.00	0.0000
Randall	2500.00	0.0000
Sarah	4000.00	0.0000
Britney	3900.00	0.0000
Samuel	3200.00	0.0000
Vance	2800.00	0.0000
Alana	3100.00	0.0000
Kevin	3000.00	0.0000
Donald	2600.00	0.0000
Douglas	2600.00	0.0000
Jennifer	4400.00	0.0000
Michael	13000.00	0.0000
Pat	6000.00	0.0000
Susan	6500.00	0.0000
Hermann	10000.00	0.0000
Shelley	12000.00	0.0000
William	8300.00	0.0000

107 rows in set (0.00 sec)

20.Write a query to display FIRST_NAME, SALARY and NET_SALARY after 500 deduction from salary of all employees;

```
SELECT FIRST_NAME, SALARY, SALARY - 500 AS NET_SALARY  FROM employees;
```

FIRST_NAME	SALARY	NET_SALARY
Steven	24000.00	23500.00
Neena	17000.00	16500.00
Lex	17000.00	16500.00
Alexander	9000.00	8500.00
Bruce	6000.00	5500.00
David	4800.00	4300.00
Valli	4800.00	4300.00
Diana	4200.00	3700.00
Nancy	12000.00	11500.00
Daniel	9000.00	8500.00
John	8200.00	7700.00
Ismael	7700.00	7200.00
Jose Manuel	7800.00	7300.00
Luis	6900.00	6400.00
Den	11000.00	10500.00
Alexander	3100.00	2600.00
Shelli	2900.00	2400.00
Sigal	2800.00	2300.00
Guy	2600.00	2100.00
Karen	2500.00	2000.00
Matthew	8000.00	7500.00
Adam	8200.00	7700.00
Payam	7900.00	7400.00
Shanta	6500.00	6000.00
Kevin	5800.00	5300.00
Julia	3200.00	2700.00
Irene	2700.00	2200.00
James	2400.00	1900.00
Steven	2200.00	1700.00
Laura	3300.00	2800.00
Mozhe	2800.00	2300.00

James	2500.00	2000.00
TJ	2100.00	1600.00
Jason	3300.00	2800.00
Michael	2900.00	2400.00
Ki	2400.00	1900.00
Hazel	2200.00	1700.00
Renske	3600.00	3100.00
Stephen	3200.00	2700.00
John	2700.00	2200.00
Joshua	2500.00	2000.00
Trenna	3500.00	3000.00
Curtis	3100.00	2600.00
Randall	2600.00	2100.00
Peter	2500.00	2000.00
John	14000.00	13500.00
Karen	13500.00	13000.00
Alberto	12000.00	11500.00
Gerald	11000.00	10500.00
Eleni	10500.00	10000.00
Peter	10000.00	9500.00
David	9500.00	9000.00
Peter	9000.00	8500.00
Christopher	8000.00	7500.00
Nanette	7500.00	7000.00
Oliver	7000.00	6500.00
Janette	10000.00	9500.00
Patrick	9500.00	9000.00
Allan	9000.00	8500.00
Lindsey	8000.00	7500.00
Louise	7500.00	7000.00
Sarath	7000.00	6500.00
Clara	10500.00	10000.00
Danielle	9500.00	9000.00
Mattea	7200.00	6700.00
David	6800.00	6300.00
Sundar	6400.00	5900.00
Amit	6200.00	5700.00
Lisa	11500.00	11000.00
Harrison	10000.00	9500.00
Tayler	9600.00	9100.00

William	7400.00	6900.00
Elizabeth	7300.00	6800.00
Sundita	6100.00	5600.00
Ellen	11000.00	10500.00
Alyssa	8800.00	8300.00
Jonathon	8600.00	8100.00
Jack	8400.00	7900.00
Kimberely	7000.00	6500.00
Charles	6200.00	5700.00
Winston	3200.00	2700.00
Jean	3100.00	2600.00
Martha	2500.00	2000.00
Girard	2800.00	2300.00
Nandita	4200.00	3700.00
Alexis	4100.00	3600.00
Julia	3400.00	2900.00

Anthony	3000.00	2500.00
Kelly	3800.00	3300.00
Jennifer	3600.00	3100.00
Timothy	2900.00	2400.00
Randall	2500.00	2000.00
Sarah	4000.00	3500.00
Britney	3900.00	3400.00
Samuel	3200.00	2700.00
Vance	2800.00	2300.00
Alana	3100.00	2600.00
Kevin	3000.00	2500.00
Donald	2600.00	2100.00
Douglas	2600.00	2100.00
Jennifer	4400.00	3900.00
Michael	13000.00	12500.00
Pat	6000.00	5500.00
Susan	6500.00	6000.00
Hermann	10000.00	9500.00
Shelley	12000.00	11500.00
William	8300.00	7800.00
+-------------+----------+------------+
107 rows in set (0.07 sec)