

Database Technologies – Assignment 3

KD2-Abhishek-96835

1. Write a query to get unique department ID from employee table.

```
KD2_Abhishek_96835>select distinct DEPARTMENT_ID from employees;
+-----+
| DEPARTMENT_ID |
+-----+
| NULL          |
| 10            |
| 20            |
| 30            |
| 40            |
| 50            |
| 60            |
| 70            |
| 80            |
| 90            |
| 100           |
| 110           |
+-----+
12 rows in set (0.00 sec)
```

2. Write a query to get all the employee's details from the employees table displaying the first names in descending order.

```
KD2_Abhishek_96835>select * from employees order by FIRST_NAME desc;
+-----+
| EMPLOYEE_ID | FIRST_NAME | LAST_NAME | EMAIL | PHONE_NUMBER | HIRE_DATE | JOB_ID | SALARY | COMMISSION_PCT | MANAGER_ID | DEPARTMENT_ID |
+-----+
| 180 | Winston | Taylor | WTAYLOR | 1.650.555.0145 | 2016-01-24 | SH_CLERK | 3200.00 | NULL | 120 | 50 |
| 171 | William | Smith | WSMITH | 44.1632.968026 | 2017-02-23 | SA REP | 7480.00 | 0.15 | 148 | 80 |
| 206 | William | Gietz | WGIEZT | 1.515.555.0171 | 2012-06-07 | AC_ACCOUNT | 8300.00 | NULL | 285 | 110 |
| 195 | Vance | Jones | VJONES | 1.658.555.0160 | 2017-03-17 | SH_CLERK | 2800.00 | NULL | 123 | 50 |
| 106 | Valli | Jackson | VJACKSON | 1.590.555.0186 | 2016-02-05 | IT_PROG | 4880.00 | NULL | 183 | 60 |
| 141 | Trenna | Raji | TRAJS | 1.658.555.0141 | 2013-10-17 | ST_CLERK | 3500.00 | NULL | 124 | 50 |
| 132 | TJ | Olson | TJOLSON | 1.650.555.0132 | 2017-04-10 | ST_CLERK | 2100.00 | NULL | 121 | 50 |
| 190 | Timothy | Venzl | TVENZL | 1.650.555.0155 | 2016-07-11 | SH_CLERK | 2900.00 | NULL | 122 | 50 |
| 175 | Alyssa | Hutton | AHUTTON | 44.1632.968030 | 2015-03-19 | SA REP | 8800.00 | 0.25 | 149 | 80 |
| 158 | Allan | McEwen | AMCEWEN | 44.1632.968013 | 2014-08-01 | SA REP | 9800.00 | 0.35 | 146 | 80 |
| 185 | Alexis | Bull | ABULL | 1.650.555.0150 | 2015-02-20 | SH_CLERK | 4100.00 | NULL | 121 | 50 |
| 103 | Alexander | James | AJAMES | 1.590.555.0103 | 2016-01-03 | IT_PROG | 9800.00 | NULL | 102 | 60 |
| 115 | Alexander | Khoob | AKHOO | 1.515.555.0115 | 2013-05-18 | PU_CLERK | 3100.00 | NULL | 114 | 30 |
| 147 | Alberto | Errazuriz | AERRAZUR | 44.1632.968002 | 2015-03-10 | SA_MAN | 12800.00 | 0.30 | 100 | 80 |
| 196 | Alana | Walsh | AWALSH | 1.650.555.0161 | 2016-04-24 | SH_CLERK | 3100.00 | NULL | 124 | 50 |
| 121 | Adam | Fripp | AFRIPP | 1.650.555.0121 | 2015-04-10 | ST_MAN | 8200.00 | NULL | 100 | 50 |
+-----+
107 rows in set (0.00 sec)
```

3. Write a query to get the employee ID, names (first_name and last_name), salary in ascending order of salary.

```
KD2_Abhishek_96835>select EMPLOYEE_ID,concat(FIRST_NAME,' ',LAST_NAME) as names,SALARY from employees order by salary;
+-----+
| EMPLOYEE_ID | names      | SALARY   |
+-----+
| 132 | TJ Olson | 2100.00 |
| 128 | Steven Markle | 2200.00 |
| 136 | Hazel Philtanker | 2200.00 |
| 127 | James Landry | 2400.00 |
| 135 | Ki Gee | 2400.00 |
| 119 | Karen Colmenares | 2500.00 |
| 131 | James Marlow | 2500.00 |
| 140 | Joshua Patel | 2500.00 |
| 144 | Peter Vargas | 2500.00 |
+-----+
```

	205	Shelley Higgins	12008.00
	201	Michael Martinez	13000.00
	146	Karen Partners	13500.00
	145	John Singh	14000.00
	101	Neena Yang	17000.00
	102	Lex Garcia	17000.00
	100	Steven King	24000.00

107 rows in set (0.01 sec)

4. Display first name and joining date of the employees who are either IT Programmer or Sales Man.

KD2_Abhisek_96835>select FIRST_NAME,HIRE_DATE as Joining_Date,JOB_ID from employees where JOB_ID='IT_PROG' or JOB_ID='SA_MAN';		
FIRST_NAME	Joining_Date	JOB_ID
Alexander	2016-01-03	IT_PROG
Bruce	2017-05-21	IT_PROG
David	2015-06-25	IT_PROG
Valli	2016-02-05	IT_PROG
Diana	2017-02-07	IT_PROG
John	2014-10-01	SA_MAN
Karen	2015-01-05	SA_MAN
Alberto	2015-03-10	SA_MAN
Gerald	2017-10-15	SA_MAN
Eleni	2018-01-29	SA_MAN

10 rows in set (0.01 sec)

5. Display details of employees with employee ID 150 or 160.

KD2_Abhisek_96835>select * from employees where EMPLOYEE_ID=150 or EMPLOYEE_ID=160;										
EMPLOYEE_ID	FIRST_NAME	LAST_NAME	EMAIL	PHONE_NUMBER	HIRE_DATE	JOB_ID	SALARY	COMMISSION_PCT	MANAGER_ID	DEPARTMENT_ID
150	Sean	Tucker	STCKER	44.1632.960005	2015-01-30	SA_REP	10000.00	0.30	145	80
160	Louise	Doran	LDORAN	44.1632.960015	2015-12-15	SA_REP	7500.00	0.30	146	80

2 rows in set (0.01 sec)

6. Display first name, salary, commission pct, and hire date for employees with salary less than 10000.

KD2_Abhisek_96835>select FIRST_NAME,SALARY,COMMISSION_PCT,HIRE_DATE from employees where salary<10000;			
FIRST_NAME	SALARY	COMMISSION_PCT	HIRE_DATE
Alexander	9000.00	NULL	2016-01-03
Bruce	6000.00	NULL	2017-05-21
David	4800.00	NULL	2015-06-25
Valli	4800.00	NULL	2016-02-05
Diana	4200.00	NULL	2017-02-07
Daniel	9000.00	NULL	2012-08-16
John	8200.00	NULL	2015-09-28
Ismael	7700.00	NULL	2015-09-30

Alana	3100.00	NULL	2016-04-24
Kevin	3000.00	NULL	2016-05-23
Donald	2600.00	NULL	2017-06-21
Douglas	2600.00	NULL	2018-01-13
Jennifer	4400.00	NULL	2013-09-17
Pat	6000.00	NULL	2015-08-17
Susan	6500.00	NULL	2012-06-07
William	8300.00	NULL	2012-06-07

88 rows in set (0.01 sec)

7. Display employees where the first name or last name starts with S.

KD2_Abhisek_96835>select first_name, last_name from employees where FIRST_NAME LIKE 'S%' or LAST_NAME LIKE 'S%';	
first_name	last_name
Sundar	Ande
Shelli	Baida
Sarah	Bell
Shelley	Higgins
Susan	Jacobs
Steven	King
Sundita	Kumar
Steven	Markle
Samuel	McLeod
Nandita	Sarchand
Ismael	Sciarra
John	Seo
Sarath	Sewall
John	Singh
Lindsey	Smith
William	Smith
Stephen	Stiles
Martha	Sullivan
Patrick	Sully
Sigal	Tobias
Sean	Tucker
Shanta	Vollman

22 rows in set (0.00 sec)

8. Display details of jobs in the descending order of the title.

KD2_Abhisek_96835>select * from jobs order by JOB_TITLE desc;				
JOB_ID	JOB_TITLE	MIN_SALARY	MAX_SALARY	
ST_MAN	Stock Manager	5500	8500	
ST_CLERK	Stock Clerk	2008	5000	
SH_CLERK	Shipping Clerk	2500	5500	
SA REP	Sales Representative	6000	12008	
SA MAN	Sales Manager	10000	20080	
PU MAN	Purchasing Manager	8000	15000	
PU CLERK	Purchasing Clerk	2500	5500	
PR REP	Public Relations Representative	4500	10500	
AC ACCOUNT	Public Accountant	4200	9000	
IT PROG	Programmer	4000	10000	
AD PRES	President	20080	40000	
MK REP	Marketing Representative	4000	9000	
MK MAN	Marketing Manager	9000	15000	
HR REP	Human Resources Representative	4000	9000	
FI MGR	Finance Manager	8200	16000	
AD VP	Administration Vice President	15000	30000	
AD ASST	Administration Assistant	3000	6000	
AC MGR	Accounting Manager	8200	16000	
FI ACCOUNT	Accountant	4200	9000	

19 rows in set (0.01 sec)

9. Display the details of the employees from department 30, earning the salary greater than 10000 but do not receive the commission.

```
KD2_Abhishhek_96835>select * from employees where DEPARTMENT_ID=30 AND SALARY>10000 AND COMMISSION_PCT is null;
+-----+-----+-----+-----+-----+-----+-----+-----+-----+
| EMPLOYEE_ID | FIRST_NAME | LAST_NAME | EMAIL | PHONE_NUMBER | HIRE_DATE | JOB_ID | SALARY | COMMISSION_PCT | MANAGER_ID | DEPARTMENT_ID |
+-----+-----+-----+-----+-----+-----+-----+-----+-----+
|      114 | Den       | Li        | DLI    | 1.515.555.0114 | 2012-12-07 | PU_MAN | 11000.00 |      NULL |          100 |         30 |
+-----+-----+-----+-----+-----+-----+-----+-----+-----+
1 row in set (0.00 sec)
```

10. Display the details of employees reporting to the managers with employee id 100 and 120.

```
KD2_Abhishhek_96835>select * from employees where MANAGER_ID=100 OR MANAGER_ID=120;
+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
| EMPLOYEE_ID | FIRST_NAME | LAST_NAME | EMAIL | PHONE_NUMBER | HIRE_DATE | JOB_ID | SALARY | COMMISSION_PCT | MANAGER_ID | DEPARTMENT_ID |
+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
|     101 | Neena     | Yang      | NYANG  | 1.515.555.0101 | 2015-09-21 | AD_VP   | 17000.00 |      NULL |          100 |         90 |
|     102 | Lex        | Garcia    | LGARCIA| 1.515.555.0102 | 2011-01-13 | AD_VP   | 17000.00 |      NULL |          100 |         90 |
|     114 | Den        | Li        | DLI    | 1.515.555.0110 | 2012-12-07 | PU_MAN | 11000.00 |      NULL |          100 |         30 |
|     120 | Matthew    | Weiss    | MWEISS  | 1.650.555.0120 | 2014-07-18 | ST_MAN  | 8000.00  |      NULL |          100 |         50 |
|     121 | Adaa       | Fripp    | AFRIPP  | 1.650.555.0121 | 2015-04-10 | ST_MAN  | 8200.00  |      NULL |          100 |         50 |
|     122 | Payam      | Kaufling | PKAUFLIN| 1.650.555.0122 | 2013-05-01 | ST_MAN  | 7900.00  |      NULL |          100 |         50 |
|     123 | Shanta     | Vollman  | SVOLLMAN| 1.650.555.0123 | 2015-10-10 | ST_MAN  | 6500.00  |      NULL |          100 |         50 |
|     124 | Kevin       | Mourgos  | KMOURGOS| 1.650.555.0124 | 2017-11-16 | ST_MAN  | 5800.00  |      NULL |          100 |         50 |
|     145 | John        | Singh    | JSINGH  | 44.1632.9600000 | 2014-10-01 | SA_MAN  | 14000.00 | 0.40    |          100 |         80 |
|     146 | Karen       | Partners  | KPARTNER| 44.1632.9600001 | 2015-01-05 | SA_MAN  | 13500.00 | 0.30    |          100 |         80 |
|     147 | Alberto    | Errazuriz | AERRAZUR| 44.1632.9600002 | 2015-03-10 | SA_MAN  | 12000.00 | 0.30    |          100 |         80 |
|     148 | Gerald     | Cambrault | GCAMBRAU | 44.1632.9600003 | 2017-10-15 | SA_MAN  | 11000.00 | 0.30    |          100 |         80 |
|     149 | Eleni       | Zlotkey  | EZLOTKEY| 44.1632.9600004 | 2018-01-29 | SA_MAN  | 10500.00 | 0.20    |          100 |         80 |
|     201 | Michael    | Martinez | MMARTINE | 1.515.555.0166 | 2014-02-17 | MK_MAN  | 13000.00 |      NULL |          100 |         20 |
|     202 | Julia       | Nayer    | JNAYER  | 1.650.555.0125 | 2019-07-16 | ST_CLERK | 3200.00  |      NULL |          120 |         50 |
|     203 | Irene       | Mikkilineni | IMIKKILI | 1.650.555.0126 | 2016-09-28 | ST_CLERK | 2700.00  |      NULL |          120 |         50 |
|     204 | James       | Landry   | JLANDRY  | 1.650.555.0127 | 2017-01-14 | ST_CLERK | 2400.00  |      NULL |          120 |         50 |
|     205 | Steven      | Markle   | SMARKLE  | 1.650.555.0128 | 2018-03-08 | ST_CLERK | 2200.00  |      NULL |          120 |         50 |
|     206 | Winston    | Taylor   | WTAYLOR  | 1.650.555.0145 | 2016-01-24 | SH_CLERK | 3200.00  |      NULL |          120 |         50 |
|     207 | Jean        | Fleaur   | JFLEAUR  | 1.650.555.0146 | 2016-02-23 | SH_CLERK | 3100.00  |      NULL |          120 |         50 |
|     208 | Martha      | Sullivan | MSULLIVA | 1.650.555.0147 | 2017-06-21 | SH_CLERK | 2500.00  |      NULL |          120 |         50 |
|     209 | Girard      | Geoni    | GGEONI   | 1.650.555.0148 | 2018-02-03 | SH_CLERK | 2800.00  |      NULL |          120 |         50 |
+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
22 rows in set (0.00 sec)
```

11. Display the unique country_id from locations table.

```
KD2_Abhishhek_96835>select distinct COUNTRY_ID from locations;
+-----+
| COUNTRY_ID |
+-----+
| AU |
| BR |
| CA |
| CH |
| CN |
| DE |
| GB |
| IN |
| IT |
| JP |
| MX |
| NL |
| SG |
| US |
+-----+
14 rows in set (0.04 sec)
```

12. Display all employees whose have the job_id as IT_PROG and FI_ACCOUNT.

KD2_Abhishhek_96835>select * from employees where JOB_ID='IT_PROG' or JOB_ID='FI_ACCOUNT';										
EMPLOYEE_ID	FIRST_NAME	LAST_NAME	EMAIL	PHONE_NUMBER	HIRE_DATE	JOB_ID	SALARY	COMMISSION_PCT	MANAGER_ID	DEPARTMENT_ID
109	Daniel	Faviet	DFAVIET	1.515.555.0109	2012-08-16	FI_ACCOUNT	9000.00	NULL	108	100
110	John	Chen	JCHEN	1.515.555.0110	2015-09-28	FI_ACCOUNT	8200.00	NULL	108	100
111	Ismael	Sciarrra	ISCIARRA	1.515.555.0111	2015-09-30	FI_ACCOUNT	7700.00	NULL	108	100
112	Jose Manuel	Urman	JMURMAN	1.515.555.0112	2016-03-07	FI_ACCOUNT	7800.00	NULL	108	100
113	Luis	Popp	LPOPP	1.515.555.0113	2017-12-07	FI_ACCOUNT	6900.00	NULL	108	100
103	Alexander	James	AJAMES	1.590.555.0103	2016-01-03	IT_PROG	9000.00	NULL	102	60
104	Bruce	Miller	BMILLER	1.590.555.0104	2017-05-21	IT_PROG	6000.00	NULL	103	60
105	David	Williams	DWILLIAMS	1.590.555.0105	2015-06-25	IT_PROG	4800.00	NULL	103	60
106	Valli	Jackson	VJACKSON	1.590.555.0106	2016-02-05	IT_PROG	4800.00	NULL	103	60
107	Diana	Nguyen	DNGUYEN	1.590.555.0107	2017-02-07	IT_PROG	4200.00	NULL	103	60

13. Display all countries in ascending order.

KD2_Abhishhek_96835>select * from countries order by COUNTRY_NAME;		
COUNTRY_ID	COUNTRY_NAME	REGION_ID
AR	Argentina	20
AU	Australia	40
BE	Belgium	10
BR	Brazil	20
CA	Canada	20
CN	China	30
DK	Denmark	10
EG	Egypt	50
FR	France	10
DE	Germany	10
IN	India	30
IL	Israel	30
IT	Italy	10
JP	Japan	30
KW	Kuwait	30
ML	Malaysia	30
MX	Mexico	20
NL	Netherlands	10
NG	Nigeria	50
SG	Singapore	30
CH	Switzerland	10
GB	United Kingdom of Great Britain and Nort	10
US	United States of America	20
ZM	Zambia	50
ZW	Zimbabwe	50

25 rows in set (0.03 sec)