

ASSIGNMENT 2

NAME – JYOTHI CHANDANA VOLETI
BATCH – DXC-262-ANALYTICS-B12-AZURE
EMPLOYEE DOMAIN –AZURE ANALYTICS
TRAINING UNDER – MANIPAL PRO LEARN
DATE OF SUBMISSION – 31ST MAY 2022

ROLL NUMBER – DXC-262-AB-1218
COMPANY – DXC TECHNOLOGY
TRAINER NAME – MR. AJAY KUMAR
NO.OF CASES: 12

PROBLEM STATEMENT:

CREATE A TABLE AND WRITE THE QUERIES.

STEP 1: CREATE A TABLE AND INSERT VALUES INTO THE TABLE.

CREATE TABLE:

```
CREATE TABLE GLOBETECHTB231( EMP_ID INT NOT NULL, EMP_NAME VARCHAR(100)
NOT NULL, JOB_NAME VARCHAR(100) NOT NULL, MANAGER_ID INTEGER, HIRE_DATE
DATE NOT NULL, SALARY NUMBER(10,2) NOT NULL, COMMISSION NUMBER(10,2),
DEP_ID INT NOT NULL, PRIMARY KEY(EMP_ID));
```

INSERTING VALUES:

INSERT INTO

```
GLOBETECHTB231(EMP_ID,EMP_NAME,JOB_NAME,MANAGER_ID,HIRE_DATE,SALARY,C
OMMISSION,DEP_ID)
VALUES(65271,'WADE','SALESMAN',66928,TO_DATE('1991-02-22','YYYY-MM-DD'),1350.00,6
00.00,3001);
```

INSERT INTO

```
GLOBETECHTB231(EMP_ID,EMP_NAME,JOB_NAME,MANAGER_ID,HIRE_DATE,SALARY,D
EP_ID)
VALUES(69324,'MARKER','CLERK',67832,TO_DATE('1992-01-23','YYYY-MM-DD'),1400.00,10
01);
```

INSERT INTO

```
GLOBETECHTB231(EMP_ID,EMP_NAME,JOB_NAME,MANAGER_ID,HIRE_DATE,SALARY,D
EP_ID)
VALUES(69000,'JULIUS','CLERK',66928,TO_DATE('1991-12-03','YYYY-MM-DD'),1050.00,3001
);
```

INSERT INTO

```
GLOBETECHTB231(EMP_ID,EMP_NAME,JOB_NAME,MANAGER_ID,HIRE_DATE,SALARY,D
EP_ID)
VALUES(68736,'ADNRES','CLERK',67858,TO_DATE('1997-05-23','YYYY-MM-DD'),1200.00,20
01);
```

```
INSERT INTO
GLOBETECHTB231(EMP_ID,EMP_NAME,JOB_NAME,MANAGER_ID,HIRE_DATE,SALARY,COMMISSION,DEP_ID)
VALUES(68454,'TUCKER','SALESMAN',66928,TO_DATE('1991-09-08','YYYY-MM-DD'),1600.00,0.00,3001);
```

```
INSERT INTO
GLOBETECHTB231(EMP_ID,EMP_NAME,JOB_NAME,MANAGER_ID,HIRE_DATE,SALARY,COMMISSION,DEP_ID)
VALUES(66564,'MADDEN','SALESMAN',66928,TO_DATE('1991-09-28','YYYY-MM-DD'),1350.00,1500.00,3001);
```

```
INSERT INTO
GLOBETECHTB231(EMP_ID,EMP_NAME,JOB_NAME,MANAGER_ID,HIRE_DATE,SALARY,COMMISSION,DEP_ID)
VALUES(64989,'ADELYN','SALESMAN',66928,TO_DATE('1991-02-20','YYYY-MM-DD'),1700.00,400.00,3001);
```

```
INSERT INTO
GLOBETECHTB231(EMP_ID,EMP_NAME,JOB_NAME,MANAGER_ID,HIRE_DATE,SALARY,DEP_ID)
VALUES(63679,'SANDRINE','CLERK',69062,TO_DATE('1990-12-18','YYYY-MM-DD'),900.00,201);
```

```
INSERT INTO
GLOBETECHTB231(EMP_ID,EMP_NAME,JOB_NAME,MANAGER_ID,HIRE_DATE,SALARY,DEP_ID)
VALUES(69062,'FRANK','ANALYST',65646,TO_DATE('1991-12-03','YYYY-MM-DD'),3100.00,201);
```

```
INSERT INTO
GLOBETECHTB231(EMP_ID,EMP_NAME,JOB_NAME,MANAGER_ID,HIRE_DATE,SALARY,DEP_ID)
VALUES(67858,'SCARLET','ANALYST',65646,TO_DATE('1997-04-19','YYYY-MM-DD'),3100.00,2001);
```

```
INSERT INTO
GLOBETECHTB231(EMP_ID,EMP_NAME,JOB_NAME,MANAGER_ID,HIRE_DATE,SALARY,DEP_ID)
VALUES(65646,'JONAS','MANAGER',68319,TO_DATE('1991-04-02','YYYY-MM-DD'),2957.00,2001);
```

```
INSERT INTO
GLOBETECHTB231(EMP_ID,EMP_NAME,JOB_NAME,MANAGER_ID,HIRE_DATE,SALARY,DEP_ID)
VALUES(67832,'CLARE','MANAGER',68319,TO_DATE('1991-06-09','YYYY-MM-DD'),2550.00,1001);
```

```
INSERT INTO
GLOBETECHTB231(EMP_ID,EMP_NAME,JOB_NAME,MANAGER_ID,HIRE_DATE,SALARY,DEP_ID)
VALUES(66928,'BLAZE','MANAGER',68319,TO_DATE('1991-05-01','YYYY-MM-DD'),2750.00,3001);
```

```
INSERT INTO
GLOBETECHTB231(EMP_ID,EMP_NAME,JOB_NAME,HIRE_DATE,SALARY,DEP_ID)
VALUES(68319,'KAYLING','PRESIDENT',TO_DATE('1991-11-18','YYYY-MM-DD'),6000.00,1001);
```

NOW VIEW THE TABLE CONTENT USE THE QUERY:

SELECT * FROM GLOBETECHTB231;

OUTPUT:

EMP_ID	EMP_NAME	JOB_NAME	MANAGER_ID	HIRE_DATE	SALARY	COMMISSION	DEP_ID
65271	WADE	SALESMAN	66928	22-FEB-91	1350	600	3001
69324	MARKER	CLERK	67832	23-JAN-92	1400	—	1001
69000	JULIUS	CLERK	66928	03-DEC-91	1050	—	3001
68736	ADNRES	CLERK	67858	23-MAY-97	1200	—	2001
68454	TUCKER	SALESMAN	66928	08-SEP-91	1600	0	3001
66564	MADDEN	SALESMAN	66928	28-SEP-91	1350	1500	3001
64989	ADELYN	SALESMAN	66928	20-FEB-91	1700	400	3001
63679	SANDRINE	CLERK	69062	18-DEC-90	900	—	2001
69062	FRANK	ANALYST	65646	03-DEC-91	3100	—	2001
67858	SCARLET	ANALYST	65646	19-APR-97	3100	—	2001
65646	JONAS	MANAGER	68319	02-APR-91	2957	—	2001
67832	CLARE	MANAGER	68319	09-JUN-91	2550	—	1001
66928	BLAZE	MANAGER	68319	01-MAY-91	2750	—	3001
68319	KAYLING	PRESIDENT	—	18-NOV-91	6000	—	1001

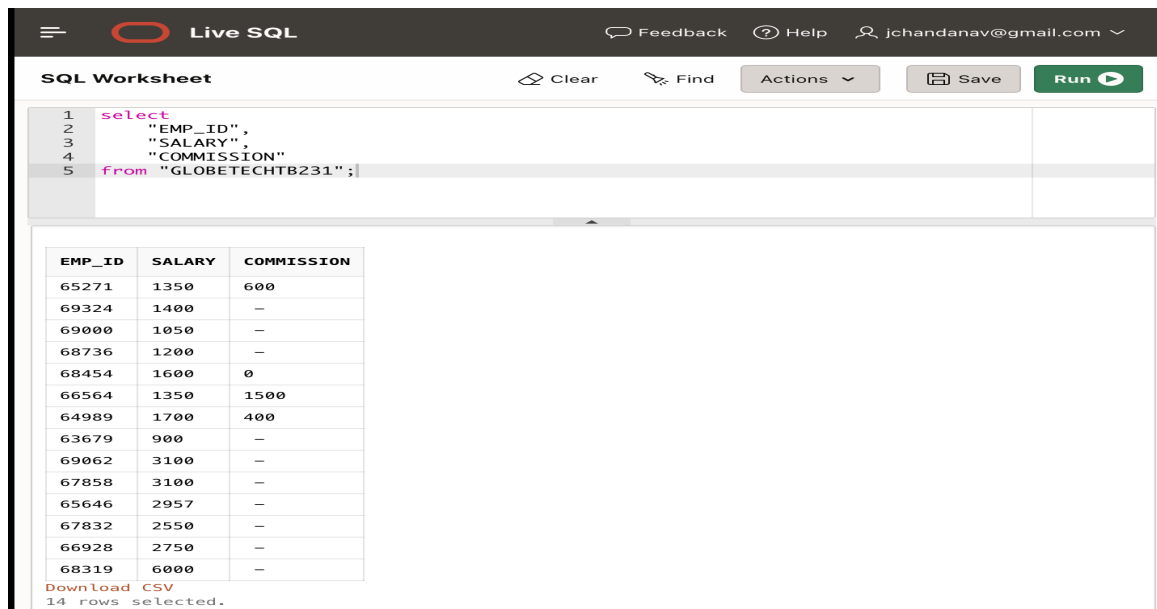
[Download CSV](#)
14 rows selected.

STEP 2: NOW WRITE THE QUERIES ACCORDING TO THE CASES GIVEN.

CASE 9: From the following table, write a SQL query to find the employee ID, salary, and commission of all the employees.

QUERY: select "EMP_ID", "SALARY", "COMMISSION" from "GLOBETECHTB231";

OUTPUT:



The screenshot shows the Live SQL interface with a SQL query entered in the worksheet. The query is: `select "EMP_ID", "SALARY", "COMMISSION" from "GLOBETECHTB231";`. The output is a table with 14 rows and 3 columns: EMP_ID, SALARY, and COMMISSION. Below the table, there is a link to 'Download CSV' and a message '14 rows selected.'

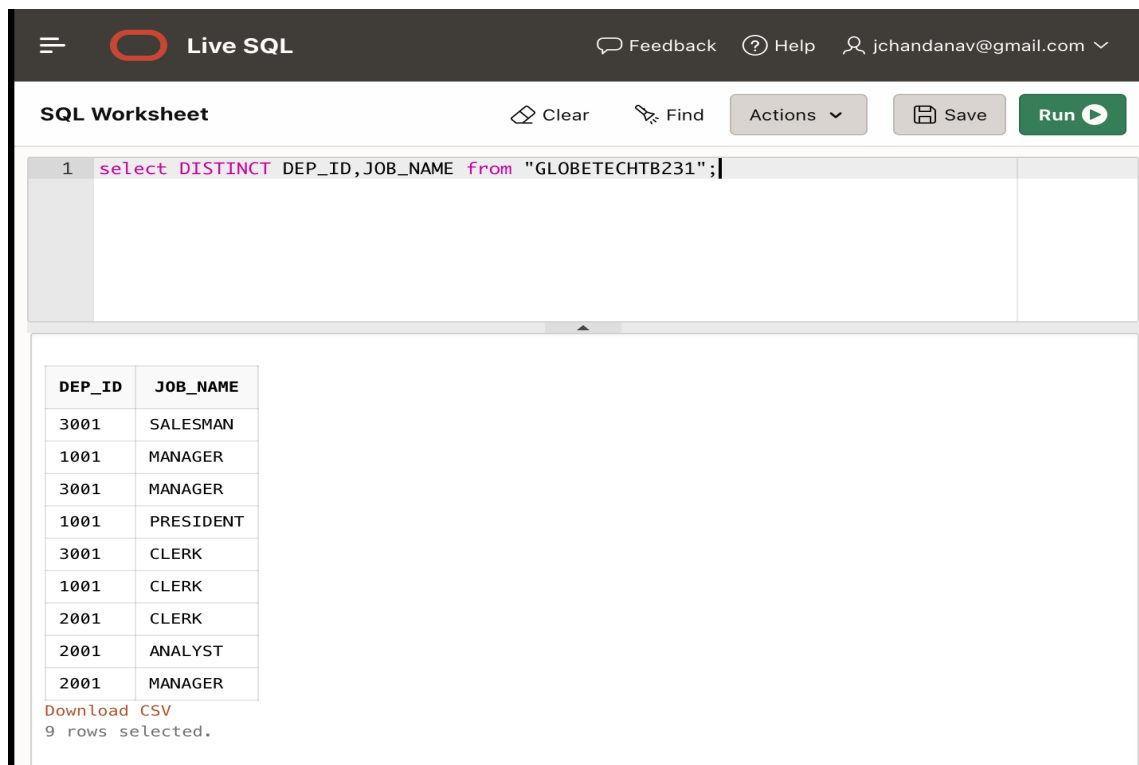
EMP_ID	SALARY	COMMISSION
65271	1350	600
69324	1400	-
69000	1050	-
68736	1200	-
68454	1600	0
66564	1350	1500
64989	1700	400
63679	900	-
69062	3100	-
67858	3100	-
65646	2957	-
67832	2550	-
66928	2750	-
68319	6000	-

[Download CSV](#)
14 rows selected.

CASE 10: From the following table, write a SQL query to find the unique department with jobs. Return department ID, Job name.

QUERY: `select DISTINCT DEP_ID,JOB_NAME from "GLOBETECHTB231";`

OUTPUT:



The screenshot shows the Live SQL interface with a SQL query entered in the worksheet. The query is: `select DISTINCT DEP_ID,JOB_NAME from "GLOBETECHTB231";`. The output is a table with 9 rows and 2 columns: DEP_ID and JOB_NAME. Below the table, there is a link to 'Download CSV' and a message '9 rows selected.'

DEP_ID	JOB_NAME
3001	SALESMAN
1001	MANAGER
3001	MANAGER
1001	PRESIDENT
3001	CLERK
1001	CLERK
2001	CLERK
2001	ANALYST
2001	MANAGER

[Download CSV](#)
9 rows selected.

CASE 11: From the following table, write a SQL query to find those employees who do not belong to the department 2001. Return complete information about the employees.

QUERY: `select * from "GLOBETECHTB231" WHERE DEP_ID NOT IN 2001;`

OUTPUT:

The screenshot shows the Live SQL interface with the following components:

- Header:** Includes a menu icon, the "Live SQL" logo, and links for Feedback, Help, and a user profile (jchandanav@gmail.com).
- Toolbar:** Contains buttons for Clear, Find, Actions (dropdown), Save, and Run (play button).
- SQL Editor:** Displays the query: `1 select * from "GLOBETECHTB231" WHERE DEP_ID NOT IN 2001;`
- Output Table:** A table with 8 columns: EMP_ID, EMP_NAME, JOB_NAME, MANAGER_ID, HIRE_DATE, SALARY, COMMISSION, and DEP_ID. It contains 9 rows of employee data.
- Footer:** Includes a "Download CSV" link and the text "9 rows selected."

EMP_ID	EMP_NAME	JOB_NAME	MANAGER_ID	HIRE_DATE	SALARY	COMMISSION	DEP_ID
65271	WADE	SALESMAN	66928	22-FEB-91	1350	600	3001
69324	MARKER	CLERK	67832	23-JAN-92	1400	-	1001
69000	JULIUS	CLERK	66928	03-DEC-91	1050	-	3001
68454	TUCKER	SALESMAN	66928	08-SEP-91	1600	0	3001
66564	MADDEN	SALESMAN	66928	28-SEP-91	1350	1500	3001
64989	ADELYN	SALESMAN	66928	20-FEB-91	1700	400	3001
67832	CLARE	MANAGER	68319	09-JUN-91	2550	-	1001
66928	BLAZE	MANAGER	68319	01-MAY-91	2750	-	3001
68319	KAYLING	PRESIDENT	-	18-NOV-91	6000	-	1001

CASE 12: From the following table, write a SQL query to find those employees who joined before 1991. Return complete information about the employees.

QUERY: `select * from "GLOBETECHTB231" WHERE`

`HIRE_DATE<TO_DATE('1991-01-01','YYYY-MM-DD');`

OUTPUT:

The screenshot shows the Live SQL interface with the following components:

- Header:** Includes a menu icon, the "Live SQL" logo, and links for Feedback, Help, and a user profile (jchandanav@gmail.com).
- Toolbar:** Contains buttons for Clear, Find, Actions (dropdown), Save, and Run (play button).
- SQL Editor:** Displays the query: `1 select * from "GLOBETECHTB231" WHERE HIRE_DATE<TO_DATE('1991-01-01','YYYY-MM-DD');`
- Output Table:** A table with 8 columns: EMP_ID, EMP_NAME, JOB_NAME, MANAGER_ID, HIRE_DATE, SALARY, COMMISSION, and DEP_ID. It contains 1 row of employee data.
- Footer:** Includes a "Download CSV" link.

EMP_ID	EMP_NAME	JOB_NAME	MANAGER_ID	HIRE_DATE	SALARY	COMMISSION	DEP_ID
63679	SANDRINE	CLERK	69062	18-DEC-90	900	-	2001

CASE 13: From the following table, write a SQL query to compute the average salary of those employees who work as 'ANALYST'. Return average salary.

QUERY: `select AVG(SALARY) from "GLOBETECHTB231" WHERE JOB_NAME='ANALYST';`

OUTPUT:

The screenshot shows the Live SQL interface. The SQL Worksheet contains the query: `select AVG(SALARY) from "GLOBETECHTB231" WHERE JOB_NAME='ANALYST';`. The output is displayed as a single row with the value 3100. Below the output, there are links for 'Download' and 'CSV'.

AVG(SALARY)
3100

[Download](#) [CSV](#)

CASE 14: From the following table, write a SQL query to find the details of the employee 'BLAZE'.

QUERY: `select * from "GLOBETECHTB231" WHERE EMP_NAME='BLAZE';`

OUTPUT:

The screenshot shows the Live SQL interface. The SQL Worksheet contains the query: `select * from "GLOBETECHTB231" WHERE EMP_NAME='BLAZE';`. The output is displayed as a table with 8 columns: EMP_ID, EMP_NAME, JOB_NAME, MANAGER_ID, HIRE_DATE, SALARY, COMMISSION, and DEP_ID. The data row shows EMP_ID 66928, EMP_NAME BLAZE, JOB_NAME MANAGER, MANAGER_ID 68319, HIRE_DATE 01-MAY-91, SALARY 2750, COMMISSION -, and DEP_ID 3001. Below the output, there is a link for 'Download CSV'.

EMP_ID	EMP_NAME	JOB_NAME	MANAGER_ID	HIRE_DATE	SALARY	COMMISSION	DEP_ID
66928	BLAZE	MANAGER	68319	01-MAY-91	2750	-	3001

[Download CSV](#)

CASE 15: From the following table, write a SQL query to find those employees whose commission is more than their salary. Return complete information about the employees.

QUERY: `select * from "GLOBETECHTB231" WHERE COMMISSION>SALARY;`

OUTPUT:

The screenshot shows the Live SQL interface with the query `select * from "GLOBETECHTB231" WHERE COMMISSION>SALARY;` entered in the SQL Worksheet. The output table displays one row of data.

EMP_ID	EMP_NAME	JOB_NAME	MANAGER_ID	HIRE_DATE	SALARY	COMMISSION	DEP_ID
66564	MADDEN	SALESMAN	66928	28-SEP-91	1350	1500	3001

Download CSV

CASE 16: From the following table, write a SQL query to find those employees whose salary exceeds 3000 after giving a 25% increment. Return complete information about the employees.

QUERY: `select * from "GLOBETECHTB231" WHERE (1.25*SALARY)>3000;`

OUTPUT:

The screenshot shows the Live SQL interface with the query `select * from "GLOBETECHTB231" WHERE (1.25*SALARY)>3000;` entered in the SQL Worksheet. The output table displays six rows of data.

EMP_ID	EMP_NAME	JOB_NAME	MANAGER_ID	HIRE_DATE	SALARY	COMMISSION	DEP_ID
69062	FRANK	ANALYST	65646	03-DEC-91	3100	-	2001
67858	SCARLET	ANALYST	65646	19-APR-97	3100	-	2001
65646	JONAS	MANAGER	68319	02-APR-91	2957	-	2001
67832	CLARE	MANAGER	68319	09-JUN-91	2550	-	1001
66928	BLAZE	MANAGER	68319	01-MAY-91	2750	-	3001
68319	KAYLING	PRESIDENT	-	18-NOV-91	6000	-	1001

Download CSV
6 rows selected.

CASE 17: From the following table, write a SQL query to find the names of the employees whose length is six. Return employee name.

QUERY: `select EMP_NAME from "GLOBETECHTB231" WHERE LENGTH(EMP_NAME)=6;`

OUTPUT:

The screenshot shows the Live SQL interface. At the top, there's a navigation bar with a menu icon, the 'Live SQL' logo, and links for Feedback, Help, and a user profile (jchandana@gmail.com). Below this is the 'SQL Worksheet' section with buttons for Clear, Find, Actions, Save, and a Run button. The SQL query entered is: `1 select EMP_NAME from "GLOBETECHTB231" WHERE LENGTH(EMP_NAME)=6;`. The output is a table with one column, 'EMP_NAME', containing six rows: MARKER, JULIUS, ADNRES, TUCKER, MADDEN, and ADELYN. Below the table, there's a 'Download CSV' link and the text '6 rows selected.'

EMP_NAME
MARKER
JULIUS
ADNRES
TUCKER
MADDEN
ADELYN

[Download CSV](#)
6 rows selected.

CASE 18: From the following table, write a SQL query to find those employees who joined in the month January. Return complete information about the employees.

QUERY: `select * from "GLOBETECHTB231" WHERE TO_CHAR(HIRE_DATE,'MM')='01';`

OUTPUT:

The screenshot shows the Live SQL interface. At the top, there's a navigation bar with a menu icon, the 'Live SQL' logo, and links for Feedback, Help, and a user profile (jchandana@gmail.com). Below this is the 'SQL Worksheet' section with buttons for Clear, Find, Actions, Save, and a Run button. The SQL query entered is: `1 select * from "GLOBETECHTB231" WHERE TO_CHAR(HIRE_DATE,'MM')='01';`. The output is a table with eight columns: EMP_ID, EMP_NAME, JOB_NAME, MANAGER_ID, HIRE_DATE, SALARY, COMMISSION, and DEP_ID. It contains one row of data: EMP_ID 69324, EMP_NAME MARKER, JOB_NAME CLERK, MANAGER_ID 67832, HIRE_DATE 23-JAN-92, SALARY 1400, COMMISSION -, and DEP_ID 1001. Below the table, there's a 'Download CSV' link.

EMP_ID	EMP_NAME	JOB_NAME	MANAGER_ID	HIRE_DATE	SALARY	COMMISSION	DEP_ID
69324	MARKER	CLERK	67832	23-JAN-92	1400	-	1001

[Download CSV](#)

CASE 19: From the following table, write a SQL query to find the name of employees and their manager separated by the string 'works for'.

QUERY: `select e.emp_name || ' works for ' || m.emp_name from GLOBETECHTB231 E,GLOBETECHTB231 M WHERE e.manager_id = m.emp_id;`

OUTPUT:

The screenshot shows the Live SQL interface with the following SQL query entered:

```
1 select e.emp_name || ' works for ' || m.emp_name from GLOBETECHTB231 E,GLOBETECHTB231 M
2 WHERE e.manager_id = m.emp_id;
```

The output is displayed as a table with the following data:

E.EMP_NAME 'WORKSFOR' M.EMP_NAME
SANDRINE works for FRANK
ADNRES works for SCARLET
FRANK works for JONAS
SCARLET works for JONAS
MARKER works for CLARE
WADE works for BLAZE
JULIUS works for BLAZE
TUCKER works for BLAZE
MADDEN works for BLAZE
ADELYN works for BLAZE
JONAS works for KAYLING
CLARE works for KAYLING
BLAZE works for KAYLING

Download CSV
13 rows selected.

CASE 20: From the following table, write a SQL query to find those employees whose designation is 'CLERK'. Return complete information about the employees.

QUERY: `select * from GLOBETECHTB231 WHERE JOB_NAME='CLERK';`

OUTPUT:

The screenshot shows the Live SQL interface with the following SQL query entered:

```
1 select * from GLOBETECHTB231 WHERE JOB_NAME='CLERK';
```

The output is displayed as a table with the following data:

EMP_ID	EMP_NAME	JOB_NAME	MANAGER_ID	HIRE_DATE	SALARY	COMMISSION	DEP_ID
69324	MARKER	CLERK	67832	23-JAN-92	1400	-	1001
69000	JULIUS	CLERK	66928	03-DEC-91	1050	-	3001
68736	ADNRES	CLERK	67858	23-MAY-97	1200	-	2001
63679	SANDRINE	CLERK	69062	18-DEC-90	900	-	2001

Download CSV
4 rows selected.