SISTER NIVEDITA UNIVERSITY

DATABASE MANAGEMENT SYSTEM

SUBMITTED BY: **PIYUSH CHANDRA CHANDRA**

DEPT- BTECH (CSE), ROLL- 1027

SUBMITTED TO: **SWARUP KUMAR GHOSH &**

DEBANJAN DAS

ASSIGNMENT 4

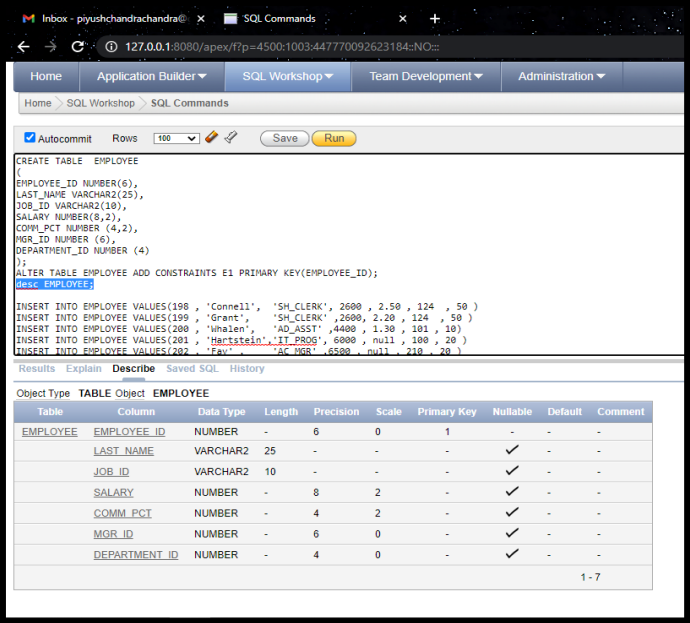
04/11/2020 – 08/11/2020

1. Create table EMPLOYEE with the following details.

FIELD NAME	TYPE
EMPLOYEE_ID	NUMBER(6)
LAST_NAME	VARCHAR2(25)
JOB_ID	VARCHAR2(10)
SALARY	NUMBER(8,2)
COMM_PCT	NUMBER (4,2)
MGR_ID	NUMBER (6)
DEPARTMENT_ID	NUMBER (4)

- CREATE TABLE EMPLOYEE

```
(
EMPLOYEE_ID NUMBER(6),
LAST_NAME VARCHAR2(25),
JOB_ID VARCHAR2(10),
SALARY NUMBER(8,2),
COMM_PCT NUMBER (4,2),
MGR_ID NUMBER (6),
DEPARTMENT_ID NUMBER (4)
);
ALTER TABLE EMPLOYEE ADD CONSTRAINTS E1 PRIMARY KEY(EMPLOYEE_ID);
desc EMPLOYEE;
```



2. Insert the following data into EMPLOYEE table.

EMPLOYEE_ID	LAST_NAME	JOB_ID	SALARY	COMM_PCT	MGR_ID	DEPARTMENT_ID
198	Connell	SH_CLERK	2600	2.5	124	50
199	Grant	SH_CLERK	2600	2.2	124	50
200	Whalen	AD_ASST	4400	1.3	101	10
201	Hartstein	IT_PROG	6000	null	100	20
202	Fay	AC_MGR	6500	null	210	20
203	Mavris	AD_VP	7500	null	101	40
204	Baer	AD_PRES	3500	1.5	101	90
205	Higgins	AC_MGR	2300	null	101	60
206	Gitz	IT_PROG	5000	null	103	60
100	King	AD_ASST	8956	0.3	108	100
101	Kochar	SH_CLERK	3400	1.3	118	30

- INSERT INTO EMPLOYEE VALUES(198 , 'Connell', 'SH_CLERK', 2600 , 2.50 , 124 , 50)

  INSERT INTO EMPLOYEE VALUES(199 , 'Grant', 'SH_CLERK' ,2600, 2.20 , 124 , 50)

  INSERT INTO EMPLOYEE VALUES(200 , 'Whalen', 'AD_ASST' ,4400 , 1.30 , 101 , 10)

  INSERT INTO EMPLOYEE VALUES(201 , 'Hartstein','IT_PROG', 6000 , null , 100 , 20)

  INSERT INTO EMPLOYEE VALUES(202 , 'Fay' , 'AC_MGR' ,6500 , null , 210 , 20)

  INSERT INTO EMPLOYEE VALUES(203 , 'Mavris' , 'AD_VP', 7500, null , 101 , 40)

  INSERT INTO EMPLOYEE VALUES(204 , 'Baer', 'AD_PRES' ,3500 , 1.50 , 101 , 90)

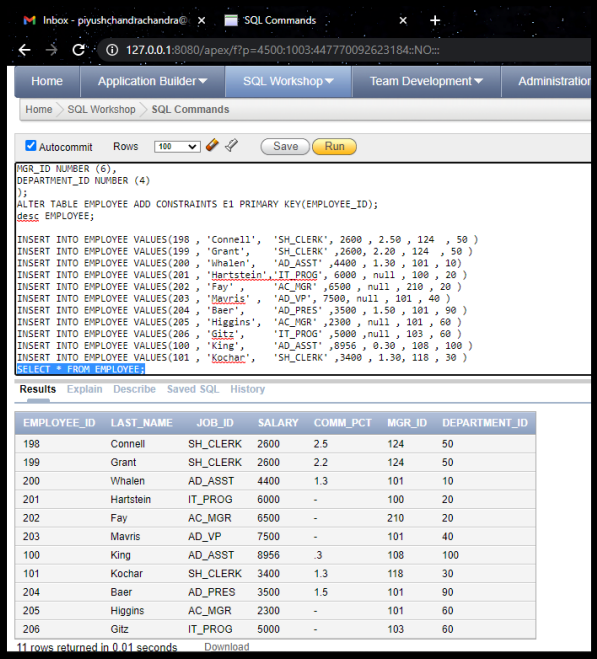
  INSERT INTO EMPLOYEE VALUES(205 , 'Higgins', 'AC_MGR' ,2300 , null , 101 , 60)

  INSERT INTO EMPLOYEE VALUES(206 , 'Gitz', 'IT_PROG' ,5000 ,null , 103 , 60)

  INSERT INTO EMPLOYEE VALUES(100 , 'King', 'AD_ASST' ,8956 , 0.30 , 108 , 100)

  INSERT INTO EMPLOYEE VALUES(101 , 'Kochar', 'SH_CLERK' ,3400 , 1.30, 118 , 30)

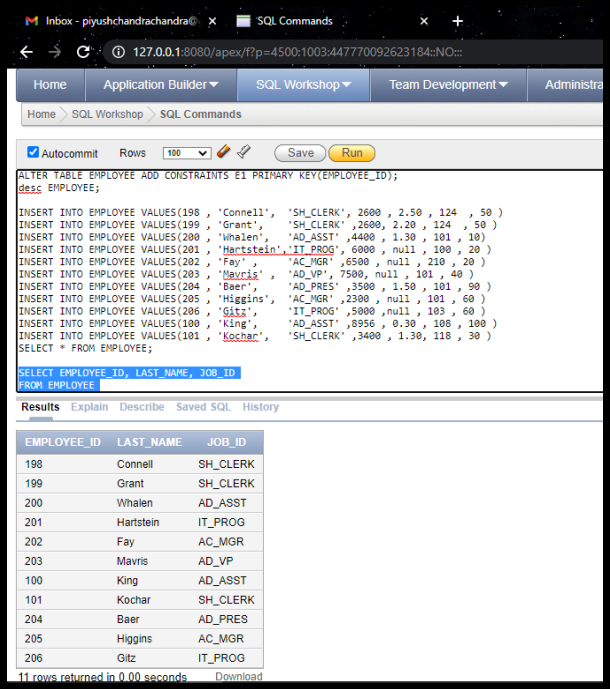
  SELECT * FROM EMPLOYEE;



3. Display last_name, job_id, employee_id for each employee with employee_id appearing first.

- SELECT EMPLOYEE_ID, LAST_NAME, JOB_ID

  FROM EMPLOYEE

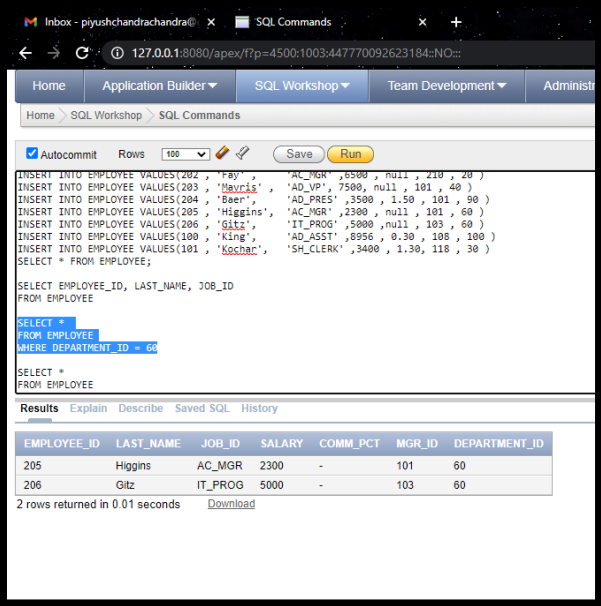


4. Display the details of all employees of department 60.

- SELECT *

  FROM EMPLOYEE

  WHERE DEPARTMENT_ID = 60

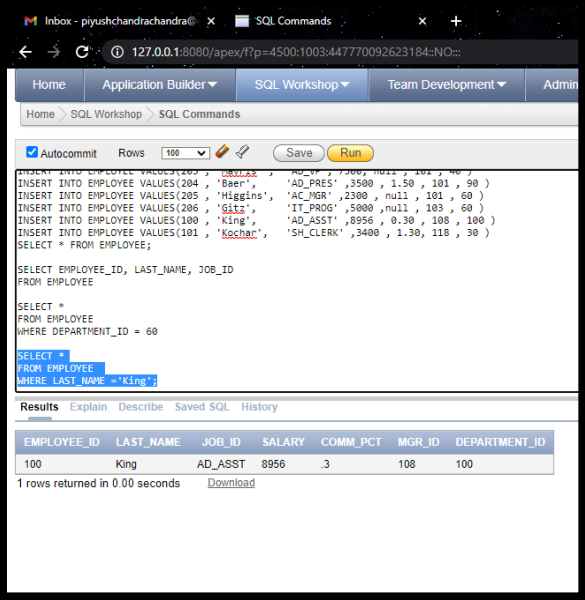


5. Display the employee details of the employee whose last_name is King.

- SELECT *

  FROM EMPLOYEE

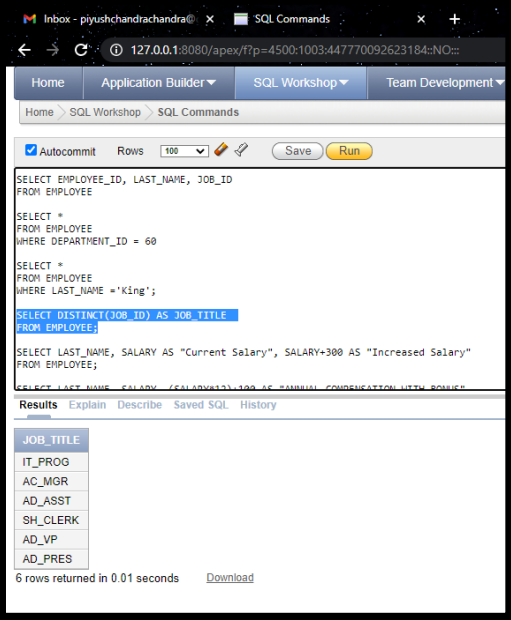
  WHERE LAST_NAME ='King';



6. Display unique job_id from EMPLOYEE table. Give alias name to the column as JOB_TITLE.

- SELECT DISTINCT(JOB_ID) AS JOB_TITLE

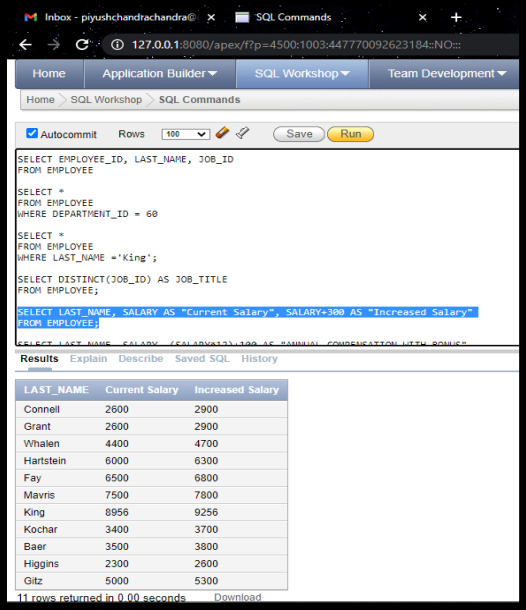
  FROM EMPLOYEE;



7. Display last_name, salary and salary increase of Rs300. Give the new column name as 'Increased Salary'.

- SELECT LAST_NAME, SALARY AS "Current Salary", SALARY+300 AS "Increased Salary"

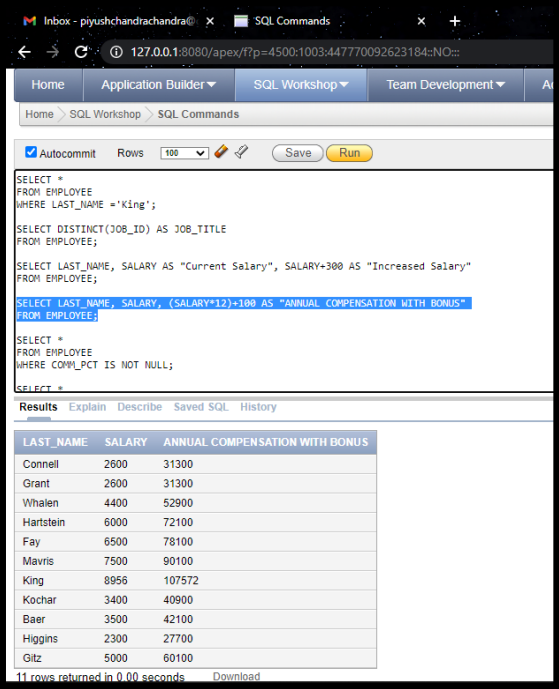
  FROM EMPLOYEE;



8. Display last_name, salary and annual compensation of all employees, plus a onetime bonus of Rs 100. Give an alias name to the column displaying annual compensation.

- SELECT LAST_NAME, SALARY, (SALARY*12)+100 AS "ANNUAL COMPENSATION WITH BONUS"

  FROM EMPLOYEE;

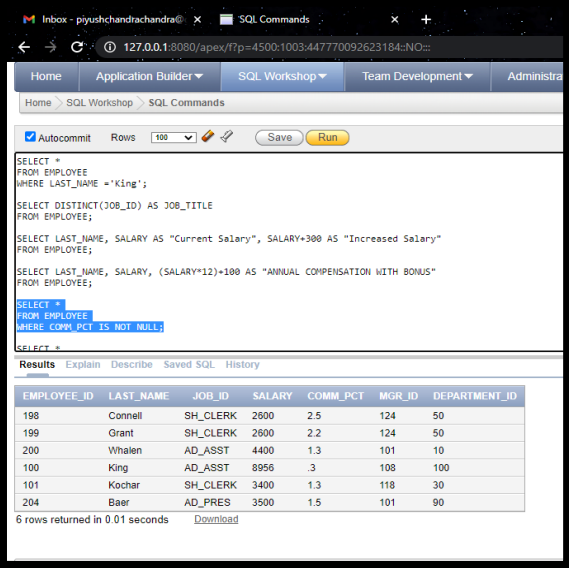


9. Display the details of those employees who get commission.

- SELECT *

  FROM EMPLOYEE

  WHERE COMM_PCT IS NOT NULL;

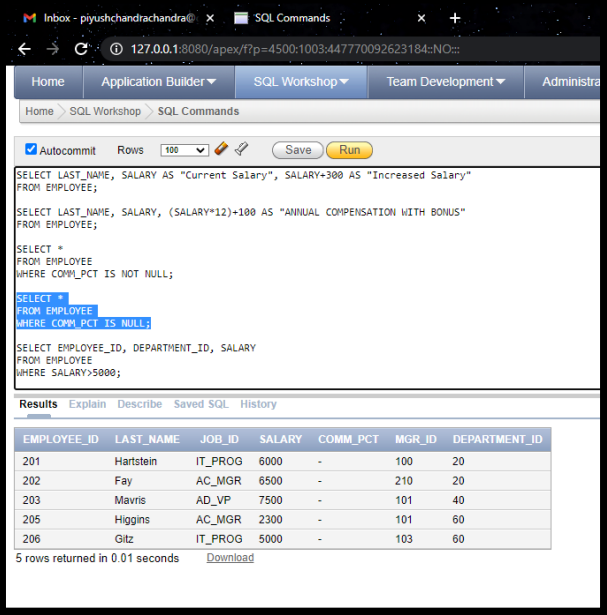


10.Display the details of those employees who do not get commission.

- SELECT *

  FROM EMPLOYEE

  WHERE COMM_PCT IS NULL;

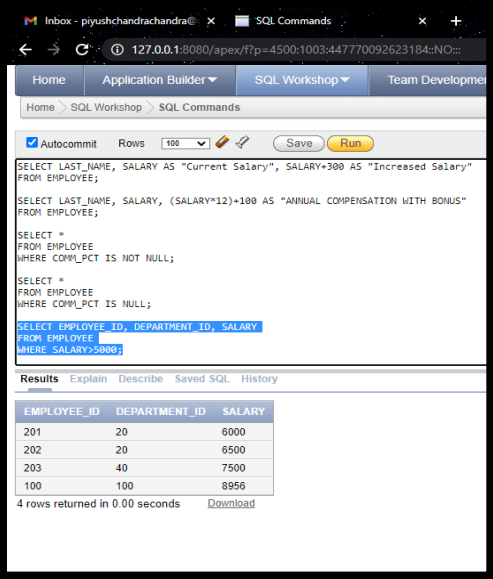


11.Display the Employee_id, Department_id and Salary all employees whose salary is greater than 5000.

- SELECT EMPLOYEE_ID, DEPARTMENT_ID, SALARY

  FROM EMPLOYEE

  WHERE SALARY>5000;

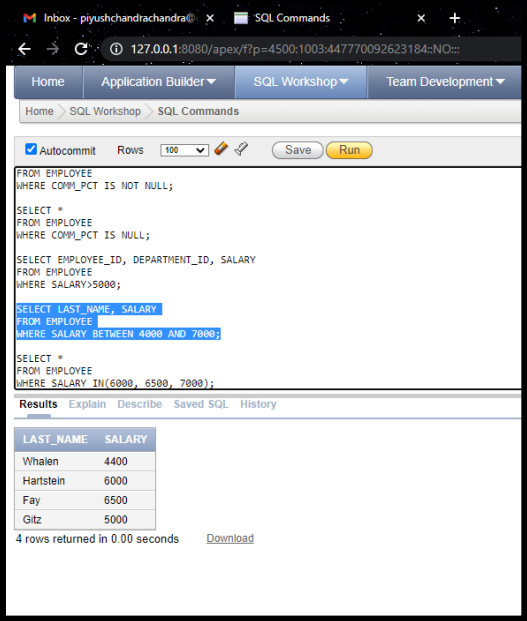


12.Display the Last_Name and Salary of all employees whose salary is between 4000 and 7000.

- SELECT LAST_NAME, SALARY

  FROM EMPLOYEE

  WHERE SALARY BETWEEN 4000 AND 7000;

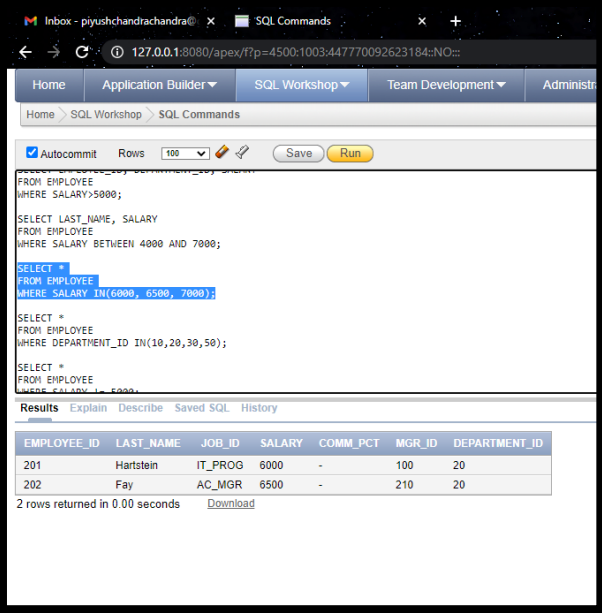


13.Display the details of all employees whose salary is either 6000 or 6500 or 7000.

- SELECT *

  FROM EMPLOYEE

  WHERE SALARY IN(6000, 6500, 7000);

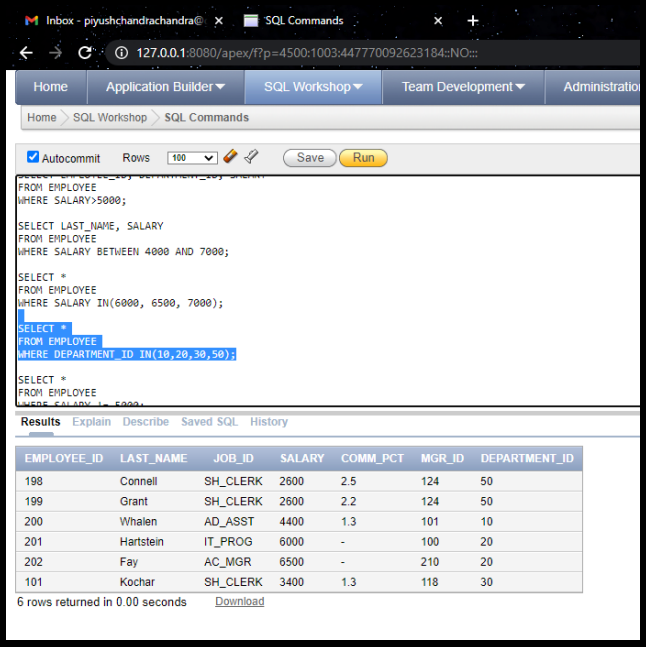


14.Display the details of all those employees who work either in department 10 or 20 or 30 or 50.

- SELECT *

  FROM EMPLOYEE

  WHERE DEPARTMENT_ID IN(10,20,30,50);

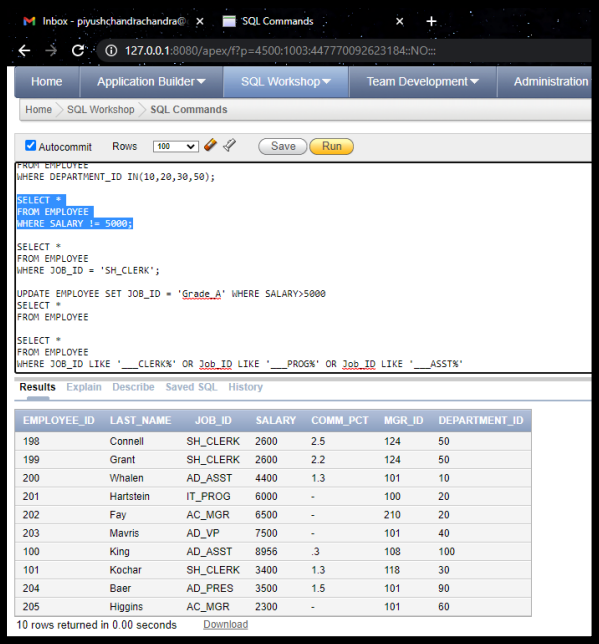


15.Display the details of all employees whose salary is not equal to 5000.

- SELECT *

  FROM EMPLOYEE

  WHERE SALARY != 5000;

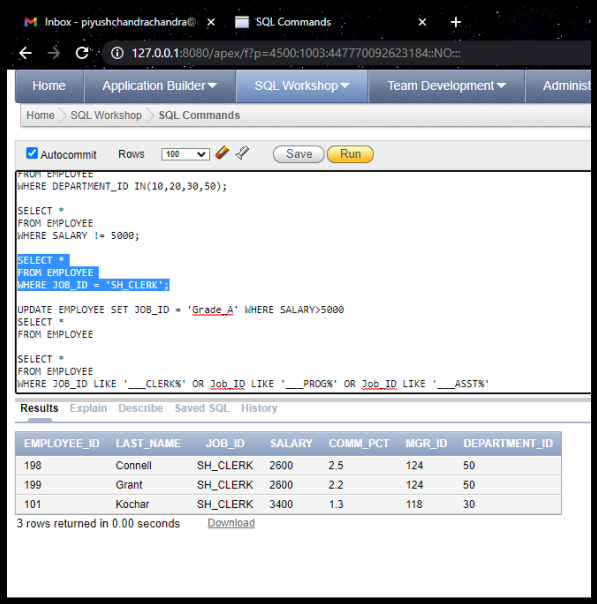


16.Display the details of all the CLERKS working in the organization.

- SELECT *

  FROM EMPLOYEE

  WHERE JOB_ID = 'SH_CLERK';



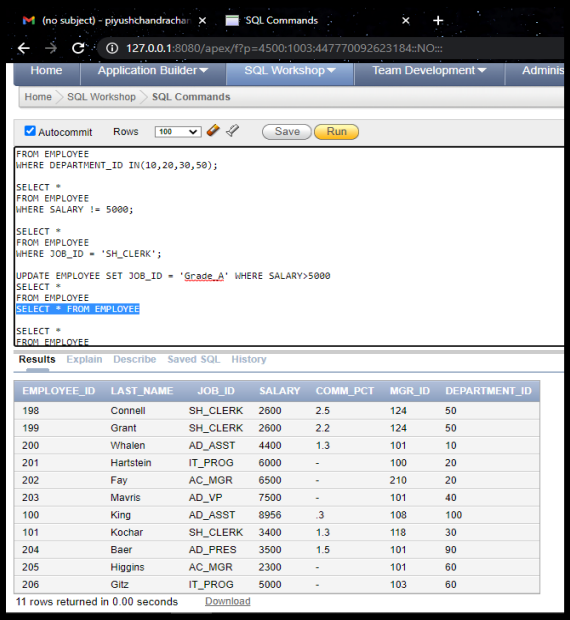
17.Update the job_id's of the employees who earn more than 5000 to Grade_A. Display the table EMPLOYEE after updating.

- UPDATE EMPLOYEE SET JOB_ID = 'Grade_A' WHERE SALARY>5000

  SELECT *

  FROM EMPLOYEE

  SELECT * FROM EMPLOYEE;

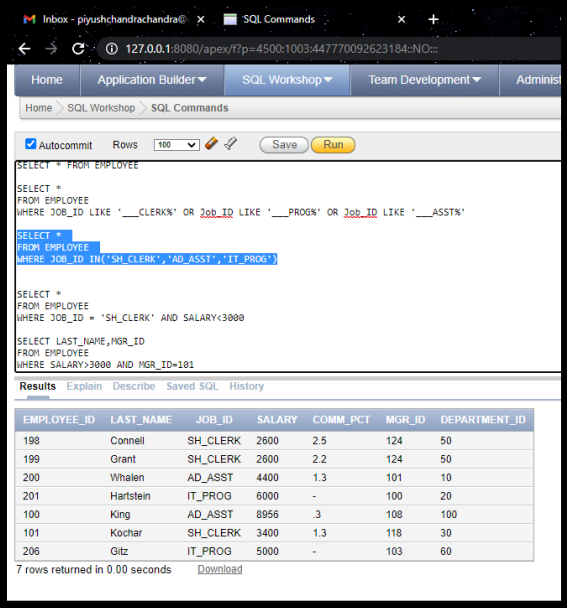


18.Display the details of all those employees who are either CLERK or PROGRAMMER or ASSISTANT.

- SELECT *

  FROM EMPLOYEE

  WHERE JOB_ID IN('SH_CLERK','AD_ASST','IT_PROG')

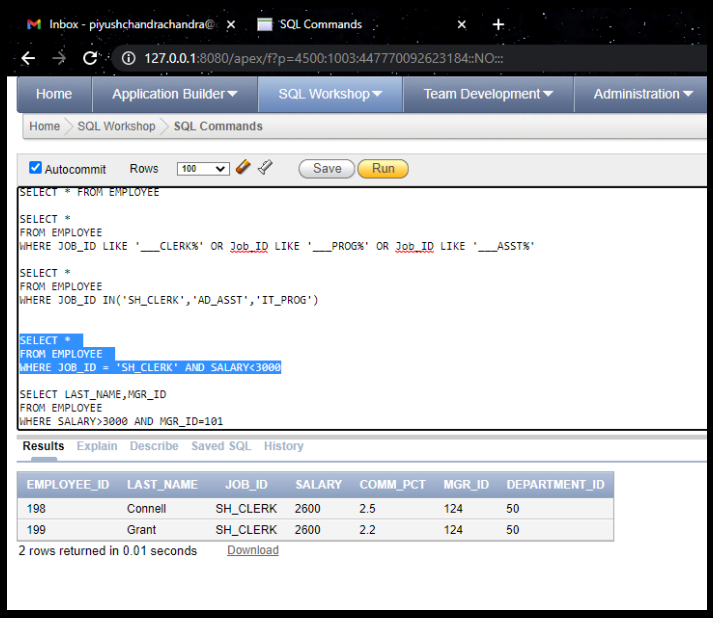


19.Display those employees from the EMPLOYEE table whose designation is CLERK and salary is less than 3000.

- SELECT *

  FROM EMPLOYEE

  WHERE JOB_ID = 'SH_CLERK' AND SALARY<3000



20.Display those employees Last_Name, Mgr_id from the EMPLOYEE table whose salary is above 3000 and work under Manager 101.

- SELECT LAST_NAME,MGR_ID

  FROM EMPLOYEE

  WHERE SALARY>3000 AND MGR_ID=101