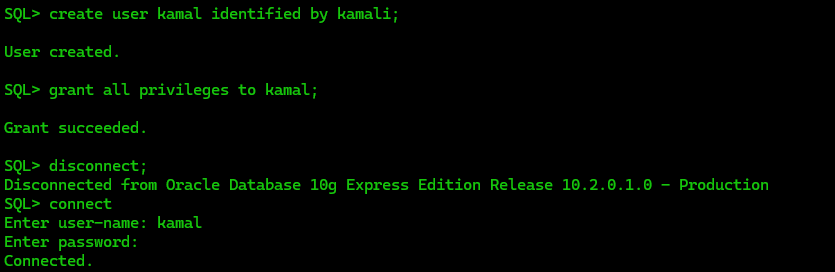
DBMS LAB MIDSEM EXAM

Name:- Bibek Chand Sah Roll No. 22054029

1. Create a new user and grant all privileges to it. Your username should be your father’s name and your password should be your mother’s name. After the user is created, log in to that user. [1]

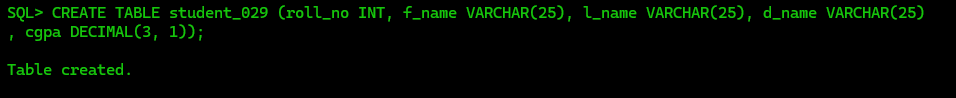
🡺 create user kamal identified by kamali;

grant all privileges to kamal;



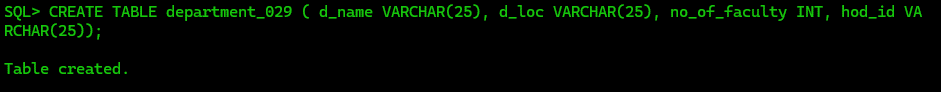
2. Create a table student\_last\_3\_digits\_of\_your\_roll\_no (e.g. student\_007) with attributes roll\_no, f\_name , l\_name , d\_name, and cgpa. [1]

🡺 CREATE TABLE student\_029 (roll\_no INT, f\_name VARCHAR(25), l\_name VARCHAR(25), d\_name VARCHAR(25), cgpa DECIMAL(3, 1));



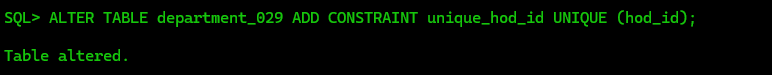
3. Create another table department\_last\_3\_digits\_of\_your\_roll\_no (e.g. deoartment\_203) with attributes d\_name, d\_loc, no\_of\_faculty, hod\_id.[1]

🡺 CREATE TABLE department\_029 ( d\_name VARCHAR(25), d\_loc VARCHAR(25), no\_of\_faculty INT, hod\_id VARCHAR(25));



4. Make the hod\_id attribute in the department table unique. [1]

🡺ALTER TABLE department\_029 ADD CONSTRAINT unique\_hod\_id UNIQUE (hod\_id);



5. Add an attribute ph\_no in the student table, which should have a unique

constraint on it. [1]

🡺 ALTER TABLE student\_029 ADD ph\_no INT UNIQUE;

A black screen with green text

Description automatically generated

6. Make the ph\_no attribute NOT NULL. [1]

🡺 ALTER TABLE student\_029 MODIFY ph\_no INT Not Null;

A black screen with green text

Description automatically generated

7. Make the d\_name attribute in the student table a foreign key referencing the d\_name attribute in the department table. [1]

🡺

alter table department\_029 add constraint pk\_key primary key (d\_name);

alter table student\_029 add constraint fk\_key foreign key (d\_name) references department\_029 (d\_name);

A black screen with green text

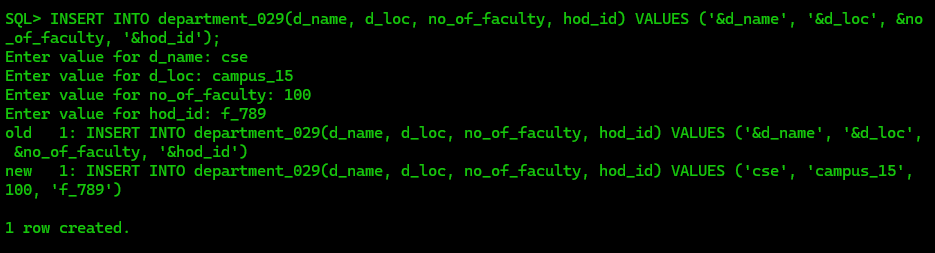
Description automatically generated

8. Enter the following tuples into the department table. [1]

|  |  |  |  |
| --- | --- | --- | --- |
| d\_name | d\_loc | no\_of\_faculty | hod\_id |
| cse | campus\_15 | 100 | f\_789 |
| it | campus\_14 | 45 | f\_1009 |
| csse | campus\_12 | 34 | f\_646 |

🡺

INSERT INTO department\_029(d\_name, d\_loc, no\_of\_faculty, hod\_id) VALUES ('&d\_name', '&d\_loc', &no\_of\_faculty, '&hod\_id');



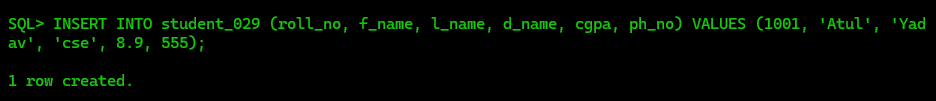
9. Enter the following tuples into the student table. [1]

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| roll\_no | f\_name | l\_name | d\_name | cgpa | ph\_no |
| 1001 | Atul | Yadav | cse | 8.9 | 555 |
| 1002 | Bipasa | Sharma | it | 7.9 | 666 |
| 3001 | Sunil | Sahoo | csse | 8.0 | 777 |
| 3002 | Eleena | Winget | csse | 8.5 | 888 |
| 3003 | Asha | Verma | csse | 7.5 | 999 |

🡺

INSERT INTO student\_029 (roll\_no, f\_name, l\_name, d\_name, cgpa, ph\_no) VALUES (1001, 'Atul', 'Yadav', 'cse', 8.9, 555);

INSERT INTO student\_029 (roll\_no, f\_name, l\_name, d\_name, cgpa, ph\_no) VALUES (1002, 'Bipasa', 'Sharma', 'it', 7.9, 666);



10. Update the location of IT department to campus\_3. [1]

🡺UPDATE department\_029 SET d\_loc = 'campus\_3' WHERE d\_name = 'it';



11. Project the department names and their average cgpa. [1]

🡺SELECT d\_name, AVG(cgpa) AS avg\_cgpa FROM student\_029 GROUP BY d\_name;

A screen shot of a computer

Description automatically generated

12. Display the student details whose f\_name starts with ‘a’ and ends with ‘a’. [1]

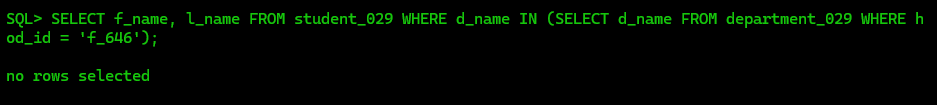
🡺SELECT \* FROM student\_029 WHERE f\_name LIKE 'a%a';

A black screen with green text

Description automatically generated

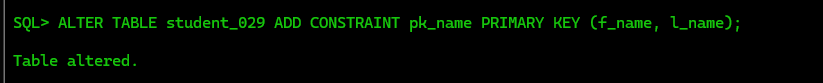
13. List the names of the students who come in the control of hod\_id f\_646. [1]

🡺SELECT f\_name, l\_name FROM student\_029 WHERE d\_name IN (SELECT d\_name FROM department\_029 WHERE hod\_id = 'f\_646');



14. Make {f\_name,l\_name} the primary key of the student table. [1]

🡺 ALTER TABLE student\_029 ADD CONSTRAINT pk\_name PRIMARY KEY (f\_name, l\_name);



15. Rename the ph\_no attribute to whatsapp. [1]

🡺ALTER TABLE student\_029 RENAME COLUMN ph\_no TO whatsapp;

