**SQL – CREATION OF TABLE**

1) CREATION OF STUDENT TABLE:

**CREATE TABLE STUDENT (SID CHAR (10) PRIMARY KEY,**

**SNAME VARCHAR (15) NOT NULL,**

**"%" NUMBER (3) NOT NULL,**

**YOP NUMBER (4),**

**BRANCH\_ID VARCHAR (10));**

2) CREATION OF BRANCH TABLE:

**CREATE TABLE BRANCH (B\_ID VARCHAR (10) PRIMARY KEY,**

**BRANCH VARCHAR (15),**

**FEE NUMBER (10));**

3) INSERTING THE VALUES INTO THE TABLE:

**INSERT INTO STUDENT VALUES ('&SID', '&SNAME', '&%',**

**'&YOP', '&BRANCH\_ID');**

AFTER ENTERING VALUES OF 1st RECORD

TO ENTER VALUES INTO THE 2nd RECORD WE HAVE TO EXECUTE THE SAME QUERY. INSTEAD OF WRITING THE WHOLE QUERY AGAIN.

USE **“/”** TO EXECUTE THE LAST QUERY FOR ENTERING THE NEXT RECORDS.

**SCENARIO:** IT IS NOT ACCEPTING THE VALUES FOR %. SO, WE UPDATE IT BY:

**ALTER TABLE STUDENT**

**RENAME COLUMN “%” TO PERCENTAGE;**

OP: TABLE ALTERED.

THEN AFTER CHANGING THE COL NAME IN TABLE WE HAVE TO DO THE CHANGES IN THE SYNTAX OF INSERTING THE DATA

**INSERT INTO STUDENT VALUES ('&SID', '&SNAME', '&PERCENTAGE',**

**'&YOP', '&BRANCH\_ID');**

THEN AFTER INSERTING VALUES INTO THE STUDENT TABLE,

INSERT VALUES INTO THE BRANCH BY USING:

**INSERT INTO BRANCH VALUES ('&B\_ID', '&BRANCH', '&FEE');**

AFTER INSERTING

**PERFORM: COMMIT;**

OP: COMMIT SUCCESSFULLY.

**QUESTIONS:**

1. WHAT IS THE SYNTAX OF CREATING A TABLE?
2. WHAT IS THE SYNTAX OF INSERTING VALUES INTO THE TABLE?
3. HOW CAN WE CHANGE/UPDATE THE COLUMNS IN A TABLE?
4. WHY ALTER IS USED?
5. WHY WE USE COMMIT AFTER CREATING A TABLE?

**QURIES:**

1)WAQTD STUDENT NAME IF THE STUDENT IS HAVING MORETHAN 70%?

**SELECT SNAME FROM STUDENT WHERE PERCENTAGE > 70;**

**OP:**

SNAME

---------------

A

B

C

D

E

J

2) WAQTD STUDENT NAME, YOP OF THE STUDENT IF THE STUDENT PASSED IN THE RANGE OF 2021 TO 2025?

**SELECT SNAME, YOP FROM STUDENT WHERE YOP BETWEEN 2021 AND 2025;**

**OP:**

SNAME YOP

--------------- ----------

A 2022

B 2023

C 2022

D 2023

E 2022

F 2021

G 2022

H 2023

I 2024

J 2023

3) WAQTD SID, SNAME, BRANCH\_ID OF THE STUDENTS? IF THE STUDENT ARE PASSED IN THE YEAR OF 2023 AND THEIR BRANCH CONTAINS 1 IS THE LAST CHARACTER?

**SELECT SID, SNAME, BRANCH\_ID FROM STUDENT**

**WHERE YOP IN 2023 AND BRANCH\_ID LIKE ‘%1’;**

**OP:**

SID SNAME BRANCH\_ID

---------- --------------- ----------

104 D B101

108 H B101

4) WAQTD ALL THE DETAILS OF THE STUDENT? IF THE STUDENT IS HAVING FEE IS LESSTHAN 65000 AFTER DEDUCTION OF 10%OF FEE?

**SELECT \* FROM STUDENT**

**WHERE BRANCH\_ID = (SELECT B\_ID FROM BRANCH**

**WHERE FEE\*0.9 < 65000);**

NO ROWS SELECTED

5)DISPLAY BRANCH ID OF THE STUDENT? IF THE BRANCH IS HAVING MORETHAN 3 STUDENTS?

**SELECT BRANCH\_ID FROM STUDENT**

**GROUP BY BRANCH\_ID**

**HAVING COUNT(BRANCH\_ID)>3;**

**OP:**

BRANCH\_ID

----------

B101

B102

6) DISPLAY BRANCH, FEE OF THE STUDENTS? IF THE BRANCH HAVING MORETHAN 4 STUDENTS AND TOTAL FEE SHOULD BE GREATER THAN 200000?

**SELECT BRANCH, FEE FROM BRANCH**

**WHERE B\_ID IN (SELECT BRANCH\_ID**

**FROM STUDENT**

**GROUP BY BRANCH\_ID**

**HAVING COUNT(BRANCH\_ID)>4 )**

**AND FEE IN (SELECT SUM(FEE) FROM BRANCH**

**HAVING SUM(FEE) > 2000000);**

**OP:** NO ROWS SELECTED

7) I WANT TO DISPLAY BRANCH ID, NO OF STUDENTS IN EACH BRANCH?

**SELECT BRANCH\_ID, COUNT(BRANCH\_ID) AS STUDENTS\_PRESENT**

**FROM STUDENT**

**GROUP BY BRANCH\_ID;**

**OP:**

BRANCH\_ID STUDENTS\_PRESENT

---------- ----------------

B101 4

B103 2

B102 4

8) WAQTD BRANCH ID OF THE STUDENTS WITHOUT HAVING REPEATED VALUES AND DISPLAY THE IN THE VALUES IN DESC ORDER?

**SELECT DISTINCT(BRANCH\_ID) FROM STUDENT**

**ORDER BY BRANCH\_ID DESC;**

**OP:**

BRANCH\_ID

----------

B103

B102

B101

9) WAQTD SNAME, SID OF THE STUDENTS? WHO’S BRANCH ID IS B101, B102 AND THEY ARE NOT BELONGS TO B104 AND THEIR NAME CONTAINS 'A' OR B OR 'C' AND NOT CONTAINS 'D' OR 'E'?

**SELECT SNAME, SID FROM STUDENT**

**WHERE BRANCH\_ID IN ('B101','B102') AND**

**(BRANCH\_ID NOT IN ‘B104’) AND**

**(SNAME LIKE '%A%' OR SNAME LIKE '%B%' OR SNAME LIKE '%C%') AND (SNAME NOT LIKE '%D%' OR SNAME NOT LIKE ‘%E%');**

**OP:**

SNAME SID

---------- ----------

A 101

B 102

C 103

10) WAQT MAX PERCENTAGE, MIN PERCENTAGE, VG PERCENTAGE, NO OF STUDENTS PRESENT IN EACH BRANCH?

**SELECT MAX(PERCENTAGE), MIN(PERCENTAGE),**

**AVG(PERCENTAGE), COUNT (\*)**

**FROM STUDENT**

**GROUP BY BRANCH\_ID**

**OP:**

MAX(PERCENTAGE) MIN(PERCENTAGE) AVG(PERCENTAGE) COUNT (\*)

--------------- --------------- --------------- ----------

90 65 80 4

66 30 48 2

92 35 69 4