1:List all the students “Student\_Id”,”First\_Name”,”Last\_Name” and “Prog\_Name” where program name is “ADVANCED CERTIFICATE IN SOFTWARE DEVELOPMENT”

SELECT S.STUDENT\_ID,S.FIRST\_NAME,S.LAST\_NAME,P.PROG\_NAME

FROM PROGRAMME P,CLASS\_GROUP CG,STUDENT S

WHERE P.PROG\_CODE=CG.PROG\_CODE

AND CG.GROUP\_ID=S.GROUP\_ID

AND P.PROG\_NAME="ADVANCED CERTIFICATE IN SOFTWARE DEVELOPMENT"

ORDER BY S.STUDENT\_ID;

2:List the module names belongs to program “EMERGENCY CARE SERVICES”

SELECT M.MODULE\_NAME

FROM PROGRAMME P,PROG\_MODULE PM,MODULE M

WHERE P.PROG\_CODE=PM.PROG\_CODE

AND PM.MODULE\_CODE=M.MODULE\_CODE

AND P.PROG\_NAME="EMERGENCY CARE SERVICES";

3:Name the module group and program taught by”T003”

SELECT M.MODULE\_NAME,CG.GROUP\_ID,P.PROG\_NAME

FROM TEACHER\_TEACH TT,MODULE M,CLASS\_GROUP CG,PROGRAMME P

WHERE TT.MODULE\_CODE=M.MODULE\_CODE

AND TT.GROUP\_ID=CG.GROUP\_ID

AND CG.PROG\_CODE=P.PROG\_CODE

AND TT.TEACHER\_ID="T003";

4:List the student and teacher where Email or telephone number is missing

SELECT T.FIRST\_NAME,"TEACHER" AS TEACHER\_OR\_STUDENT,T.EMAIL,T.TELEPHONE\_NUMBER

FROM TEACHER T

WHERE (T.EMAIL IS NULL)

OR T.EMAIL=""

OR T.TELEPHONE\_NUMBER IS NULL

OR T.TELEPHONE\_NUMBER=""

UNION

SELECT S.FIRST\_NAME,"STUDENT",S.EMAIL,S.TELEPHONE\_NUMBER

FROM STUDENT S

WHERE (S.EMAIL IS NULL)

OR S.EMAIL=""

OR S.TELEPHONE\_NUMBER IS NULL

OR S.TELEPHONE\_NUMBER=""

ORDER BY 1 DESC;

5:Name of the students were born in 90’s and their nationality is irish

SELECT S.STUDENT\_ID,S.LAST\_NAME

FROM STUDENT S

WHERE S.D0B BETWEEN "1990-01-01" AND "1999-12-31"

AND S.NATIONALITY="IRISH";

6:Calculating results and printing results

SELECT \*,R.ASSESSMENT\_1+R.ASSESSMENT\_2+R.ASSESSMENT\_3+R.ASSESSMENT\_4+R.EXAM AS TOTAL,

(CASE

WHEN R.ASSESSMENT\_1+R.ASSESSMENT\_2+R.ASSESSMENT\_3+R.ASSESSMENT\_4+R.EXAM >=80.0 THEN "DISTINCTION"

WHEN R.ASSESSMENT\_1+R.ASSESSMENT\_2+R.ASSESSMENT\_3+R.ASSESSMENT\_4+R.EXAM >=60.0 THEN "MERIT"

WHEN R.ASSESSMENT\_1+R.ASSESSMENT\_2+R.ASSESSMENT\_3+R.ASSESSMENT\_4+R.EXAM >=50.0 THEN "PASS"

ELSE "FAIL"

END) AS GRADE

FROM RESULTS R;

7:COMMUNICATION module taught by which teacher to which group

SELECT TT.GROUP\_ID,M.MODULE\_NAME,T.FIRST\_NAME

FROM MODULE M,TEACHER\_TEACH TT,TEACHER T

WHERE M.MODULE\_CODE=TT.MODULE\_CODE

AND TT.TEACHER\_ID=T.TEACHER\_ID

AND M.MODULE\_NAME="COMMUNICATIONS";

8:Inserting data in intermediate table from other tables without using primary key e.g using name

insert into prog\_module(prog\_code,module\_code)

select PROG\_CODE,module\_code from programme,module

where PROG\_NAME="nouman zafar"

and module\_NAME="COMMUNICATIONS";

9:Name of the groups belongs to "NURSING STUDIES"

SELECT CG.GROUP\_ID

FROM PROGRAMME P,CLASS\_GROUP CG

WHERE P.PROG\_NAME="NURSING STUDIES"

AND P.PROG\_CODE=CG.PROG\_CODE

10:Which modules belongs to Class\_Group “ACFD1”

SELECT M.MODULE\_NAME

FROM CLASS\_GROUP CG,PROG\_MODULE PM,MODULE M

WHERE CG.PROG\_CODE=PM.PROG\_CODE

AND PM.MODULE\_CODE=M.MODULE\_CODE

AND GROUP\_ID="ACFD1";

11:Which groups module taught by which teacher(for gui always keep ? to where)

SELECT T.FIRST\_NAME

FROM TEACHER\_TEACH TT,MODULE M,TEACHER T

WHERE TT.GROUP\_ID="BS02"

AND M.MODULE\_NAME="COMMUNICATIONS"

AND TT.MODULE\_CODE=M.MODULE\_CODE

AND TT.TEACHER\_ID=T.TEACHER\_ID

12:Searching the results of the students by group id

SELECT R.MODULE\_CODE,R.STUDENT\_ID,R.ASSESSMENT\_1,R.ASSESSMENT\_2,R.ASSESSMENT\_3,

R.ASSESSMENT\_4,R.EXAM,R.ASSESSMENT\_1+R.ASSESSMENT\_2+R.ASSESSMENT\_3+R.ASSESSMENT\_4+R.EXAM AS TOTAL,

(CASE

WHEN R.ASSESSMENT\_1+R.ASSESSMENT\_2+R.ASSESSMENT\_3+R.ASSESSMENT\_4+R.EXAM >=80.0 THEN "DISTINCTION"

WHEN R.ASSESSMENT\_1+R.ASSESSMENT\_2+R.ASSESSMENT\_3+R.ASSESSMENT\_4+R.EXAM >=60.0 THEN "MERIT"

WHEN R.ASSESSMENT\_1+R.ASSESSMENT\_2+R.ASSESSMENT\_3+R.ASSESSMENT\_4+R.EXAM >=50.0 THEN "PASS"

ELSE "FAIL"

END) AS GRADE

FROM CLASS\_GROUP CG,STUDENT S,RESULTS R

WHERE CG.GROUP\_ID="BS01"

AND CG.GROUP\_ID=S.GROUP\_ID

AND S.STUDENT\_ID=R.STUDENT\_ID

13:Inserting results for whole group at a time

INSERT INTO RESULTS (MODULE\_CODE,STUDENT\_ID,ASSESSMENT\_1,ASSESSMENT\_2,ASSESSMENT\_3,ASSESSMENT\_4,EXAM)

SELECT M.MODULE\_CODE,S.STUDENT\_ID,5,5,5,5,5

FROM STUDENT S,CLASS\_GROUP CG,MODULE M

WHERE CG.GROUP\_ID="ACSD1"

AND M.MODULE\_CODE="5N1367"

AND S.GROUP\_ID=CG.GROUP\_ID

14:Updating results by group

UPDATE RESULTS SET MODULE\_CODE=?,

STUDENT\_ID= STUDENT\_ID,

ASSESSMENT\_1=?,

ASSESSMENT\_2=?,

ASSESSMENT\_3=?,

ASSESSMENT\_4=?,

EXAM=?

where(MODULE\_CODE=? and STUDENT\_ID= any(Select student\_id from student where group\_id=?))

15:Deleting the results for a group

DELETE FROM RESULTS WHERE MODULE\_CODE=? AND STUDENT\_ID= any(Select student\_id from student where group\_id=?)

16:Max Min Function as condition

SELECT S.STUDENT\_ID,S.FIRST\_NAME,S.LAST\_NAME,M.MODULE\_NAME,R.ASSESSMENT\_1,

R.ASSESSMENT\_2,R.ASSESSMENT\_3,R.ASSESSMENT\_4,R.EXAM,

R.ASSESSMENT\_1+R.ASSESSMENT\_2+R.ASSESSMENT\_3+R.ASSESSMENT\_4+R.EXAM AS TOTAL,

(CASE

WHEN R.ASSESSMENT\_1+R.ASSESSMENT\_2+R.ASSESSMENT\_3+R.ASSESSMENT\_4+R.EXAM >=80.0 THEN "DISTINCTION"

WHEN R.ASSESSMENT\_1+R.ASSESSMENT\_2+R.ASSESSMENT\_3+R.ASSESSMENT\_4+R.EXAM >=60.0 THEN "MERIT"

WHEN R.ASSESSMENT\_1+R.ASSESSMENT\_2+R.ASSESSMENT\_3+R.ASSESSMENT\_4+R.EXAM >=50.0 THEN "PASS"

ELSE "FAIL"

END) AS GRADE

FROM RESULTS R,STUDENT S,MODULE M

WHERE R.ASSESSMENT\_1+R.ASSESSMENT\_2+R.ASSESSMENT\_3+R.ASSESSMENT\_4+R.EXAM=

(SELECT MAX(R.ASSESSMENT\_1+R.ASSESSMENT\_2+R.ASSESSMENT\_3+R.ASSESSMENT\_4+R.EXAM) AS HIGHEST\_MARKS FROM RESULTS R

WHERE R.MODULE\_CODE="5N2706")

AND R.STUDENT\_ID=S.STUDENT\_ID

AND R.MODULE\_CODE=M.MODULE\_CODE