

Q.4)

StudentBasicInformation

	StudentRollNo	StudentName	StudentSurname	StudentAddress	StudentDept	StudentPhone	StudentEmail
	1120	Nikita	Dara	Solapur	IT	9999999999	nikitad@gmail.com
	1121	Abby	Sabale	Shelgi	CSE	9898989898	abbys@gmail.com
	1122	Yesasvi	Kanyaka	Vaizag	CSE	7777777777	yesasvik@gmail.com
	1123	Sapna	Nalla	Solapur	IT	8787878787	sapnan@gmail.com
	1124	Tanaya	Karajgikar	Karajgi	CSE	7878787878	tanayak@gmail.com
	1125	Mohan	Manikanta	Guntur	CSE	9797979797	mohanm@gmail.com
	1126	Ganesh	Mandalapu	Hyderabad	CSE	9876987698	ganeshm@gmail.com
	1127	Srija	paluvatla	Hyderabad	IT	7896789678	srijap@gmail.com
	1128	Manali	Sonavane	Mohol	ENTC	7899789977	manalis@gmail.com
	1129	Prudhvi	Dasari	Hanumakonda	CSE	8888554466	prudhvid@gmail.com
▶	1130	Bhavana	Kudkyal	Solapur	IT	8769870986	bhavanak@gmail.com

StudentAdmissionPaymentDetails

	id	StudentRollNo	AmountPaid	AmountBalance	AdmissionDate	RecieptNumber	paid via
	2	1121	15000	50000	2022-08-03	7688	online
	3	1122	8000	50000	2022-07-04	8867	cash
	4	1123	30000	50000	2022-10-12	7798	cash
	5	1124	12000	50000	2022-09-14	7768	online
	6	1125	4000	50000	2022-07-02	7756	cash
	7	1126	3000	50000	2022-09-03	8799	cash
	8	1127	2800	50000	2022-10-04	7655	online
	9	1128	1000	50000	2022-09-02	7790	cash
	10	1129	12000	50000	2022-07-06	7791	online
▶	11	1130	7000	50000	2022-06-08	7645	cash

StudentSubjectInformation

	StudentRollNo	SubjectOpted	SubjectTotalMarks	SubjectObtainedMarks	StudentMarksPercentage	StudentSubjectGrade
	1120	Science	100	90	90	A
	1121	Science	100	87	87	A
	1122	Maths	100	90	90	A
	1123	Physics	100	87	87	A
	1124	Maths	100	83	83	A
	1125	Chemistry	100	76	76	B
	1126	Computer	100	67	67	C
	1127	Computer	100	92	92	A
	1128	Science	100	87	87	A
	1129	Physics	100	85	85	A
▶	1130	Chemistry	100	68	68	C

SubjectScholarshipInformation

	StudentRollNo	ScholarshipName	ScholarshipDescription	ScholarshipAmount	ScholarshipCategory	ScholarshipStatus	SponsoredBy
►	1121	Merit	1 year	20000	Merit	Fund Disbursed	Scholars Fo...
	1122	Abdul Kalam	2 years	10000	Help	Under Process	Government
	1123	PACE	3 years	12000	Arts	Under Process	Student Pro...
	1124	Tata	1 year	15000	Health	Completed	TATA
	1125	Abdul Kalam	2 years	10000	Help	Under Process	Government
	1126	Samunnati	3 years	3500	Fees	Fund Disbursed	Agro Funds
	1127	Merit	1 year	20000	Merit	Fund Disbursed	Scholars Fo...
	1128	Abdul Kalam	2 years	10000	Help	Under Process	Government
	1129	PACE	3 years	12000	Arts	Under Process	Student Pro...
	1130	Tata	1 year	15000	Health	Completed	TATA
	1131	Samunnati	3 years	3500	Fees	Fund Disbursed	Agro Funds

Q.6)

Update studentbasicinformation

Set StudentPhone=7840913731

Where StudentRollNo = 1120;

	StudentRollNo	StudentName	StudentSurname	StudentAddress	StudentDe	StudentPhone	StudentEmail
►	1120	Nikita	Dara	Solapur	IT	7840913731	nikitad@gmail.com
	1121	Abby	Sabale	Shelgi	CSE	9898989898	abbys@gmail.com
	1122	Yesasvi	Kanyaka	Vaizag	CSE	7777777777	yesasvik@gmail.com
	1123	Sapna	Nalla	Solapur	IT	8787878787	sapnan@gmail.com
	1124	Tanaya	Karajgikar	Karajgi	CSE	7878787878	tanayak@gmail.vom
	1125	Mohan	Manikanta	Guntur	CSE	9797979797	mohanm@gmail.com
	1126	Ganesh	Mandalapu	Hyderabad	CSE	9876987698	ganeshm@gmail.com
	1127	Srija	paluvatla	Hyderabad	IT	7896789678	srijap@gmail.com
	1128	Manali	Sonavane	Mohol	ENTC	7899789977	manalis@gmail.com
	1129	Prudhvi	Dasari	Hanumakonda	CSE	8888554466	prudhvid@gmail.com
	1130	Bhavana	Kudkyal	Solapur	IT	8769870986	bhavanak@gmail.com

UPDATE studentadmissionpaymentdetails

SET AmountPaid = 25000

WHERE StudentRollNo = 1123;

	StudentRollNo	AmountPaid	AmountBalance	AdmissionDate	ReceiptNumber	paid via	id
	1120	10000	50000	2022-10-06	8977	online	1
	1121	15000	50000	2022-08-03	7688	online	2
	1122	8000	50000	2022-07-04	8867	cash	3
▶	1123	25000	50000	2022-10-12	7798	cash	4
	1124	12000	50000	2022-09-14	7768	online	5
	1125	4000	50000	2022-07-02	7756	cash	6
	1126	3000	50000	2022-09-03	8799	cash	7
	1127	2800	50000	2022-10-04	7655	online	8
	1128	1000	50000	2022-09-02	7790	cash	9
	1129	12000	50000	2022-07-06	7791	online	10
	1130	7000	50000	2022-06-08	7645	cash	11

UPDATE studentsubjectinformation

SET SubjectOpted = Maths

WHERE StudentRollNo = 1128;

	StudentRollNo	SubjectOpted	SubjectTotalMarks	SubjectObtainedMarks	StudentMarksPercentage	StudentSubjectGrade
▶	1120	Science	100	90	90	A
	1121	Science	100	87	87	A
	1122	Maths	100	90	90	A
	1123	Physics	100	87	87	A
	1124	Maths	100	83	83	A
	1125	Chemistry	100	76	76	B
	1126	Computer	100	67	67	C
	1127	Computer	100	92	92	A
	1128	Maths	100	87	87	A
	1129	Physics	100	85	85	A
	1130	Chemistry	100	68	68	C

UPDATE subjectscholarshipinformation`

SET ScholarshipName = "Samunnati",

ScholarshipDescription = "3 year",

ScholarshipAmount = 3500,

ScholarshipCategory = "Fees",

SponsoredBy = "Agro Funds"

WHERE StudentRollNo = 1127;

	StudentRollNo	ScholarshipName	ScholarshipDescription	ScholarshipAmount	ScholarshipCategory	ScholarshipStatus	SponsoredBy
	1120	Merit	1 year	20000	Merit	Fund Disbursed	Scholars Foundation
	1121	Merit	1 year	20000	Merit	Fund Disbursed	Scholars Foundation
	1122	Abdul Kalam	2 years	10000	Help	Under Process	Government
	1123	PACE	3 years	12000	Arts	Under Process	Student Programs
	1124	Tata	1 year	15000	Health	Completed	TATA
	1125	Abdul Kalam	2 years	10000	Help	Under Process	Government
	1126	Samunnati	3 years	3500	Fees	Fund Disbursed	Agro Funds
►	1127	Samunnati	3 year	3500	Fees	Fund Disbursed	Agro Funds
	1128	Abdul Kalam	2 years	10000	Help	Under Process	Government
	1129	PACE	3 years	12000	Arts	Under Process	Student Programs
	1130	Tata	1 year	15000	Health	Completed	TATA

UPDATE studentbasicinformation
SET StudentDepartment = "IT"
WHERE StudentRollNo = 1124;

	StudentRollNo	StudentName	StudentSurname	StudentAddress	StudentDept	StudentPhone	StudentEmail
	1120	Nikita	Dara	Solapur	IT	7840913731	nikitad@gmail.com
	1121	Abby	Sabale	Shelgi	CSE	9898989898	abbys@gmail.com
	1122	Yesasvi	Kanyaka	Vaizag	CSE	7777777777	yesasvik@gmail.com
	1123	Sapna	Nalla	Solapur	IT	8787878787	sapnan@gmail.com
►	1124	Tanaya	Karajgikar	Karajgi	IT	7878787878	tanayak@gmail.com
	1125	Mohan	Manikanta	Guntur	CSE	9797979797	mohanm@gmail.com
	1126	Ganesh	Mandalapu	Hyderabad	CSE	9876987698	ganeshm@gmail.com
	1127	Srija	paluvatla	Hyderabad	IT	7896789678	srijap@gmail.com
	1128	Manali	Sonavane	Mohol	ENTC	7899789977	manalis@gmail.com
	1129	Prudhvi	Dasari	Hanumakonda	CSE	8888554466	prudhvid@gmail.com
	1130	Bhavana	Kudkyl	Solapur	IT	8769870986	bhavanak@gmail.com

Q.7)

```
select * from studentbasicinformation
where studentbasicinformation.studentrollno in
(select studentrollno from subjectscholarshipinformation
where subjectscholarshipinformation.scholarshipamount>5000);
```

Q.8)

```
select studentrollno, studentname from studentbasicinformation
where studentrollno not in
(select studentrollno from subjectscholarshipinformation);
```

Q.9)(Procedure)

DELIMITER \$\$

CREATE

PROCEDURE percentage()

```
BEGIN
    update studentsubjectinformation
    set studentmarkspercentage = (subjectbtainedmarks/subjecttotalmarks)*100;
    END $$
DELIMITER ;
```

Q.10)(Procedure)

```
DELIMITER $$
CREATE
    PROCEDURE setCategory()
    BEGIN
        update subjectscholarshipinformation
        set scholarshipcategory= "Merit"
        where studentrollno in
        (select studentrollno from studentsubjectinformation
        where studentmarkspercentage > 80 );
        END $$
DELIMITER ;
```

call setCategory();

Q.11)(View)

```
create view showBalance
as
    select studentrollno, studentname, studentsurname, studentaddress,
    studentemail, studentdepartment,amountbalance
    from studentbasicinformation join studentadmissionpaymentdetails
on
studentbasicinformation.StudentRollNo=studentadmissionpaymentdetails.StudentRo
llNo;
```

Q.12)

```
select studentrollno, studentname from studentbasicinformation
where studentrollno
not in (select studentrollno from subjectscholarshipinformation);
```

Q.13)(Procedure)

```
DELIMITER $$
CREATE
```

Procedure

```
Balance(in student_number varchar(40))
begin
    select studentrollno , studentname, amountbalance
    from subjectscholarshipinformation join studentbasicinformation
    on
subjectscholarshipinformation.StudentRollNo=studentbasicinformation.StudentRollNo
    where studentrollno=1130;
end $$
DELIMITER ;
```

Q.14)

```
select a.studentrollno, a.studentname , b.studentmarkspercentage
from studentbasicinformation as a, studentsubjectinformation as b
where a.studentrollno=b.studentrollno and b.studentrollno
in (select c.studentrollno from studentsubjectinformation as c)
order by b.studentmarkspercentage desc limit 5;
```

Q.15)

```
select a.studentrollno , b.scholarshipamount, a.studentmarkspercentage
from studentsubjectinformation as a
left outer join subjectscholarshipinformation as b
on a.studentrollno=b.studentrollno
where a.studentmarkspercentage>90;
```

```
select a.studentrollno , b.scholarshipamount, a.studentmarkspercentage
from subjectscholarshipinformation as b
right outer join studentsubjectinformation as a
on a.studentrollno=b.studentrollno
where a.studentmarkspercentage>90;
```

```
select a.studentrollno , b.scholarshipamount, a.studentmarkspercentage
from subjectscholarshipinformation as b
inner join studentsubjectinformation as a
on a.studentrollno=b.studentrollno
where a.studentmarkspercentage>90;
```

Q.16)

DELETE:

Delete is a DML(Data Manipulation Language) command.

It is used to delete one or more tuples of a table.

With the help of the Delete command, we can either delete all the rows at once

or can delete rows one by one. i.e.,

we can use it as per the requirement or the condition using the Where clause.

It is slower than the Truncate command.

DROP:

Drop is a (DDL)Data Definition Language command.

It is used to drop the whole table & its structure.

TRUNCATE:

Truncate is a (DDL)Data Definition Language command.

It is used to delete all the rows of a table at once.

With the help of the Truncate command, we can't delete the single row as here WHERE clause is not used.

It is faster than delete command.

Q.17)

```
select scholarshipcategory, count(studentrollno)
from subjectscholarshipinformation
group by scholarshipcategory
order by count(studentrollno) desc;
```

Q.18)

```
select max(scholarshipcategory), count(studentrollno)
from subjectscholarshipinformation
group by scholarshipcategory
order by count(studentrollno) desc limit 1;
```

Q.19)

```
SELECT
studentbasicinformation.StudentName,
studentbasicinformation.StudentSurname,
studentbasicinformation.StudentRollNo,
studentbasicinformation.StudentAddress,
```

```

studentsubjectinformation.StudentMarksPercentage,
subjectscholarshipinformation.ScholarshipAmount
FROM
studentbasicinformation
INNER JOIN studentsubjectinformation
INNER JOIN subjectscholarshipinformation ON
studentbasicinformation.StudentRollNo = studentsubjectinformation.StudentRollNo
AND
studentbasicinformation.StudentRollNo =
subjectscholarshipinformation.StudentRollNo
WHERE StudentMarksPercentage =
(SELECT MAX(StudentMarksPercentage)
FROM StudentSubjectInformation) AND ScholarshipAmount = (SELECT
MAX(ScholarshipAmount)
FROM SubjectScholarshipInformation);

```

Q.20)

TRIGGERS:

A trigger is a stored procedure that runs automatically when various events happen.

STORED PROCEDURES:

A stored procedure is a user defined piece of code written in the local version of PL/SQL,

which may return a value (making it a function) that is invoked by calling it explicitly.

VIEWS:

VIEW is a virtual table through which a selective portion of the data from one or more

tables can be seen. A view does not contain data of their own.

FUNCTIONS:

A function is a set of SQL statements that perform a specific task.

A function accepts inputs in the form of parameters and returns a value.