Advanced Database Management Systems LAB
(Assignment 5)

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BATCH : B4

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TOPIC : To understand and use SQLSub-Query

Create the following table.
1. Supplier-(scode,sname,scity,turnover)
2. Part-(pcode,weigh,color,cost,sellingprice)
3. Supplier_Part-(scode,pcode,qty)

Create table Supplier
(
scode varchar(15),
sname varchar(20),
scity varchar(30),
turnover int
);
desc Supplier;

OUTPUT -

Table created.

TABLE SUPPLIER

Column	Null?	Type
SCODE	-	NUMBER
SNAME	-	VARCHAR2(20)
SCITY	-	VARCHAR2(30)
TURNOVER	-	NUMBER

Download CSV
4 rows selected.

Create table Part
(
pcode varchar(15),
weigh int,
color varchar(20),
cost_ int,
sellingprice int
);
desc Part;

OUTPUT -

Table created.

TABLE PART

Column	Null?	Type
PCODE	-	NUMBER
WEIGH	-	NUMBER
COLOR	-	VARCHAR2(20)
COST	-	NUMBER
SELLINGPRICE	-	NUMBER

Download CSV
5 rows selected.

Create table SupplierPart
(
scode varchar(15),
pcode varchar(15),
qty int
);
desc SupplierPart;

OUTPUT -

Table created.

TABLE SUPPLIERPART

Column	Null?	Type
SCODE	-	NUMBER
PCODE	-	NUMBER
QTY	-	VARCHAR2(20)

Download CSV
3 rows selected.

- **Populate the table**

insert into Supplier values('S001','Ankush Verma','Bombay','35');
insert into Supplier values('S002','Parteek Jain','Jaipur','55');
insert into Supplier values('S003','Zafar Khan','Bombay','60');
insert into Supplier values('S004','Sanskriti Sharma','Delhi','40');

Select * from Supplier;

OUTPUT -

1 row(s) inserted.

1 row(s) inserted.

1 row(s) inserted.

1 row(s) inserted.

SCODE	SNAME	SCITY	TURNOVER
S001	Ankush Verma	Bombay	35
S002	Parteek Jain	Jaipur	55
S003	Zafar Khan	Bombay	60
S004	Sanskriti Sharma	Delhi	40

insert into Part values('P001', 20, 'Black', 20, 50);
insert into Part values('P002', 28, 'White', 30, 50);
insert into Part values('P003', 40, 'Red', 55, 80);
insert into Part values('P004', 34, 'Purple', 40, 55);

Select * from Part;

OUTPUT -

1 row(s) inserted.

1 row(s) inserted.

1 row(s) inserted.

1 row(s) inserted.

P1500CODE	WEIGH	COLOR	COST	SELLINGPRICE
P001	20	Black	35	50
P002	28	White	55	70
P003	40	Red	60	70
P004	34	Purple	40	45

Download CSV
4 rows selected.

insert into SupplierPart values('S001', 'P001', 1000);
insert into SupplierPart values('S002', 'P002', 1200);
insert into SupplierPart values('S003', 'P003', 800);
insert into SupplierPart values('S004', 'P004', 1500);

Select * from SupplierPart;

OUTPUT -

SCODE	PCODE	QTY
S001	P001	1000
S002	P002	1200
S003	P003	800
S004	P004	1500

Download CSV
4 rows selected.

● **Write appropriate SQL Statement for the following:**

1. Get the supplier number and part number in ascending order of supplier number.

Select scode,pcode
From SupplierPart order by scode asc;

OUTPUT -

SCODE	PCODE
S001	P001
S002	P002
S003	P003
S004	P004

Download CSV
4 rows selected.

2. Get the details of supplier who operate from Bombay with turn over 50.

Select * From Supplier
Where scity = 'Bombay' and turnover > 50;

OUTPUT -

SCODE	SNAME	SCITY	TURNOVER
S003	Zafar Khan	Bombay	60

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3. Get the total number of supplier.

select count(*) from Supplier;

OUTPUT -

COUNT(*)
4

Download CSV

4. Get the part number weighing between 25 and 35.

Select pcode From Part
Where weigh between 25 and 350;

OUTPUT -

PCODE
P002
P003
P004

Download CSV
3 rows selected.

5. Get the supplier number whose turnover is null.

Select scode From Supplier
Where turnover=0;

OUTPUT -

no data found

6. Get the part number that cost 20, 30 or 40 rupees.

Select pcode From Part
Where cost in(20,30,40);

OUTPUT -

PCODE
P001
P002
P004

Download CSV
3 rows selected.

7. Get the total quantity of part 2 that is supplied.

select sum(qty) from SupplierPart
group by pcode having pcode = 'P002';

OUTPUT -

SUM(QTY)
1200

Download CSV

8. Get the name of supplier who supply part 2.

select sname from Supplier
where scode = (scode from SupplierPart where pcode = 'P002');

9. Get the part number whose cost is greater than the average cost.

Select pcode From Part
Where cost_ > (Select Avg(cost_) from Part);

OUTPUT -

PCODE
P003
P004

Download CSV
2 rows selected.

10. Get the supplier number and turnover in descending order of turnover.

Select scode,turnover From Supplier order by turnover desc;

OUTPUT -

SCODE	TURNOVER
S003	60
S002	55
S004	40
S001	35

Download CSV
4 rows selected.

>>> END <<<