

## EMPLOYEE

EmpID	EmpFname	EmpLname	Age	EmailID	PhoneNo	City
1	Riya	Khanna	21	riya@abc.com	987655443	Delhi
2	Sahil	Kumar	32	sahil@abc.com	987657643	Mumbai
3	Vishwas	Aanand	24	vishwas@abc.com	987658871	Kolkata
4	Harleen	Kaur	27	harleen@abc.com	987677585	Bengaluru
5	Priyanshu	Gupta	23	priyanshu@abc.com	956758556	Hyderabad

## PROJECT

ProjectID	EmpID	ProjectName	ProjectStartDate	ClientID
100	1	pro_1	2021-04-21	3
200	2	pro_2	2021-03-12	1
300	3	pro_3	2021-01-16	5
400	3	pro_4	2021-04-27	2
500	5	pro_5	2021-05-01	4
600	9	pro_6	2021-01-19	1
700	7	pro_7	2021-08-27	2
800	8	pro_8	2021-09-15	3

## CLIENT\_D

ClientID	ClientFname	ClientLname	Age	ClientEmailID	PhoneNo	City	EmpID
1	Steve	Rogers	47	steve@avg.com	986674443	Kolkata	3
2	Dustin	Poirier	27	dustin@ufc.com	996767643	Kolkata	3
3	Avinash	Jain	24	avinash@leg.com	876588971	Delhi	1
4	Sushant	Aggarwal	23	sushant@tek.com	744355585	Hyderabad	5
5	Param	Singh	36	param@xyz.com	674445556	Mumbai	2

### PRODUCT

Pno	Pname	Colour	Weight
1	pen	red	5
2	pencil	blue	10
3	sharpner	red	3
4	eraser	white	6
5	stapler	green	40
6	whitener	white	15

### SUPPLIER

Sno	Sname	City	Status
1	rachit	jalandhar	Active
2	sahil	amritsar	Active
3	anjali	bareilly	Active
4	priyanka	delhi	Active
5	krishna	jaipur	Active
6	kashish	chandigarh	Active

### SP

Sno	Pno	Qty
1	6	10
2	4	8
3	3	15
4	5	6
5	1	11
6	2	20

### BUYER

bid	bname	bcity	budget	sid
1	rahul	jammu	1000	11
2	roshni	chandigarh	2000	12
3	ankush	delhi	3000	13
4	himanshu	jaipur	1000	14
5	manya	lucknow	2000	11
6	anjali	dehradun		15

### SELLER

sid	sname	scity	profit
11	aditi	delhi	200
12	anchit	mumbai	300
13	rohit	chennai	100
14	virat	kolkata	400
15	taimur	indore	200

### PRODUCT

pid	amount	pdate	bid	sid
21	500	2022-01-11	1	11
22	300	2022-02-12	2	12
23	1000	2022-02-17	3	13
24	600	2022-03-14	4	14
25	700	2022-06-16	5	11
26	800	2022-08-18	6	15
27	500	2022-11-26	2	12

Q61: Enlist all the employees ID's, names along with the Project allocated to them.

```
SELECT E.EMPID, E.EMPNAME, E.EMPLNAME, P.PROJECTID, P.PROJECTNAME
FROM EMPLOYEE E
INNER JOIN PROJECT P
ON E.EMPID = P.EMPID;
```

EMPID	EMPNAME	EMPLNAME	PROJECTID	PROJECTNAME
1	Riya	Khanna	100	pro_1
2	Sahil	Kumar	200	pro_2
3	Vishwas	Aanand	300	pro_3
3	Vishwas	Aanand	400	pro_4
5	Priyanshu	Gupta	500	pro_5

Q62: Fetch out all the employee ID's and their contact detail who have been working from Delhi or have clients in Kolkata.

```
SELECT E.EMPID, E.EMAILID, E.PHONENO, C.CLIENTFNAME, C.CLIENTLNAME
FROM EMPLOYEE E
INNER JOIN CLIENT_D C
ON E.EMPID = C.EMPID
WHERE E.CITY IN ('DELHI', 'KOLKATA');
```

EMPID	EMAILID	PHONENO	CLIENTFNAME	CLIENTLNAME
3	vishwas@abc.com	987658871	Steve	Rogers
3	vishwas@abc.com	987658871	Dustin	Poirier
1	riya@abc.com	987655443	Avinash	Jain

Q63: List out all the project names with corresponding client's email id, for all the projects that were allocated after April 2021 and order them in descending order of the age of clients.

```
SELECT P.PROJECTNAME, C.CLIENTEMAILID
FROM PROJECT P
INNER JOIN CLIENT_D C
ON P.CLIENTID = C.CLIENTID
WHERE P.PROJECTSTARTDATE >= '2021-05-01'
ORDER BY C.AGE DESC;
```

```
+-----+-----+
| PROJECTNAME | CLIENTEMAILID |
+-----+-----+
| pro_7       | dustin@ufc.com |
| pro_8       | avinash@leg.com |
| pro_5       | sushant@tek.com |
+-----+-----+
```

Q64: Write an SQL query to inner join all the three table(Supplier, SP and Product) and print all the elements of the table. The tables should be joined in the same order as stated above.

```
SELECT S.SNO, S.SNAME, S.CITY, S.STATUS, SP.SNO, SP.PNO, SP.QTY, P.PNO,
P.PNAME, P.COLOUR, P.WEIGHT
FROM SUPPLIER S
INNER JOIN SP
INNER JOIN PRODUCT P
ON S.SNO = SP.SNO AND P.PNO = SP.PNO;
```

SNO	SNAME	CITY	STATUS	SNO	PNO	QTY	PNO	PNAME	COLOUR	WEIGHT
5	krishna	jaipur	active	5	1	11	1	pen	red	5
6	kashish	chandigarh	active	6	2	20	2	pencil	blue	10
3	anjali	bareilly	active	3	3	15	3	sharpner	red	3
2	sahil	amritsar	active	2	4	8	4	eraser	white	6
4	priyanka	delhi	active	4	5	6	5	stapler	green	40
1	rachit	jalandhar	active	1	6	10	6	whitener	white	15

Q65: Write a SQL query to find the name, colour and quantity of the product supplied by sahil. The tables (Supplier, SP and Product) should be joined in the same order as stated above.

```
SELECT P.PNAME, P.COLOUR, SP.QTY
FROM SUPPLIER S
INNER JOIN SP
INNER JOIN PRODUCT P
ON S.SNO = SP.SNO AND P.PNO = SP.PNO
WHERE S.SNAME IN ('SAHIL');
```

PNAME	COLOUR	QTY
eraser	white	8

Q66: Write an SQL query to find the number of products supplied by each colour.

```
SELECT P.COLOUR, COUNT(SP.QTY) AS NOP
FROM PRODUCT P
INNER JOIN SP
ON P.PNO = SP.PNO
GROUP BY P.COLOUR;
```

COLOUR	NOP
white	2
red	2
green	1
blue	1

Q67: Write a SQL query to find the max quantity (Qty) supplied by each status. The tables (Supplier, SP and Product) should be joined in the same order as stated in bracket.

```
SELECT S.STATUS, MAX(SP.QTY) AS M
FROM SUPPLIER S
INNER JOIN SP
ON S.SNO = SP.SNO
GROUP BY S.STATUS;
```

STATUS	M
active	20
inactive	8

Q68: Write a SQL query to display the supplier name, product name and their active status in order of the quantity supplied. The tables (Supplier, SP and Product) should be joined in the same order as stated above.

```
SELECT S.SNAME, P.PNAME, S.STATUS
FROM SUPPLIER S
INNER JOIN SP
INNER JOIN PRODUCT P
ON S.SNO = SP.SNO AND P.PNO = SP.PNO
ORDER BY SP.QTY;
```

SNAME	PNAME	STATUS
priyanka	stapler	active
sahil	eraser	active
rachit	whitener	active
krishna	pen	active
anjali	sharpner	active
kashish	pencil	active

Q69: Fetch out each project allocated to which employee.

```
SELECT E.EMPNAME, E.EMPLNAME, P.PROJECTID, P.PROJECTNAME
FROM EMPLOYEE E
LEFT JOIN PROJECT P
ON E.EMPID = P.EMPID;
```

EMPNAME	EMPLNAME	PROJECTID	PROJECTNAME
Riya	Khanna	100	pro_1
Sahil	Kumar	200	pro_2
Vishwas	Aanand	400	pro_4
Vishwas	Aanand	300	pro_3
Harleen	Kaur	NULL	NULL
Priyanshu	Gupta	500	pro_5

Q70: Write a SQL statement to make a report with buyer name, buyer city, product ID, purchased date, and amount in ascending order of the purchased date to find that either any of the existing customers have purchased any product or not.

```
SELECT B.BNAME, B.BCITY, P.PID, P.PDATE, P.AMOUNT
FROM BUYER B
LEFT JOIN PRODUCT P
ON B.BID = P.BID
ORDER BY P.PDATE;
```

BNAME	BCITY	PID	PDATE	AMOUNT
rahul	jammu	21	2022-01-11	500
roshni	chandigarh	22	2022-02-12	300
ankush	delhi	23	2022-02-17	1000
himanshu	jaipur	24	2022-03-14	600
manya	lucknow	25	2022-06-16	700
anjali	dehradun	26	2022-08-18	800
roshni	chandigarh	27	2022-11-26	500

Q71: Write a SQL query to find those buyers whose budget is less than 3000. Display the Buyer name, city, budget and Seller's name & city. The result should be in ascending order of buyers ID.

```
SELECT B.BNAME, B.BCITY, B.BUDGET, S.SNAME, S.SCITY
FROM BUYER B
LEFT JOIN SELLER S
ON B.SID = S.SID
WHERE B.BUDGET < 3000;
```

BNAME	BCITY	BUDGET	SNAME	SCITY
rahul	jammu	1000	aditi	delhi
roshni	chandigarh	2000	anchit	mumbai
himanshu	jaipur	1000	virat	kolkata
manya	lucknow	2000	aditi	delhi



Q72: Write a SQL query to make a report, with buyer name, buyer city, product number, purchased date, amount, seller name and profit to find that either any of the existing buyer have purchased any product or not, by their seller.

```
SELECT B.BNAME, B.BCITY, P.PID, P.PDATE, P.AMOUNT, S.SNAME, S.PROFIT
FROM BUYER B
LEFT JOIN PRODUCT P ON B.BID = P.BID
LEFT JOIN SELLER S ON B.SID = S.SID;
```

BNAME	BCITY	PID	PDATE	AMOUNT	SNAME	PROFIT
rahul	jammu	21	2022-01-11	500	aditi	200
roshni	chandigarh	27	2022-11-26	500	anchit	300
roshni	chandigarh	22	2022-02-12	300	anchit	300
ankush	delhi	23	2022-02-17	1000	rohit	100
himanshu	jaipur	24	2022-03-14	600	virat	400
manya	lucknow	25	2022-06-16	700	aditi	200
anjali	dehradun	26	2022-08-18	800	taimur	200

Q73: List out all the projects along with the employee's name and their respective allocated email ID.

```
SELECT P.PROJECTID, P.PROJECTNAME, E.EMPNAME, E.EMPLNAME, E.EMAILID
FROM PROJECT P
LEFT JOIN EMPLOYEE E
ON P.EMPID = E.EMPID;
```

```
SELECT P.PROJECTID, P.PROJECTNAME, E.EMPNAME, E.EMPLNAME, E.EMAILID
FROM EMPLOYEE E
RIGHT JOIN PROJECT P
ON P.EMPID = E.EMPID;
```

PROJECTID	PROJECTNAME	EMPNAME	EMPLNAME	EMAILID
100	pro_1	Riya	Khanna	riya@abc.com
200	pro_2	Sahil	Kumar	sahil@abc.com
300	pro_3	Vishwas	Aanand	vishwas@abc.com
400	pro_4	Vishwas	Aanand	vishwas@abc.com
500	pro_5	Priyanshu	Gupta	priyanshu@abc.com
600	pro_6	NULL	NULL	NULL
700	pro_7	NULL	NULL	NULL
800	pro_8	NULL	NULL	NULL

Q74: List out all the client details email address, whose age is between 25 to 35, along with the projects assigned to them in ascending order of their age and project ID. Also, use c for client\_d and p for project, as alias name of tables.

```
SELECT C.CLIENTID, C.CLIENTFNAME, C.CLIENTLNAME, C.CLIENTEMAILID,
P.PROJECTID, P.PROJECTNAME
FROM PROJECT P
RIGHT JOIN CLIENT_D C
ON C.CLIENTID = P.CLIENTID
WHERE C.AGE BETWEEN 25 AND 35
ORDER BY C.AGE, P.PROJECTID;
```

CLIENTID	CLIENTFNAME	CLIENTLNAME	CLIENTEMAILID	PROJECTID	PROJECTNAME
2	Dustin	Poirier	dustin@ufc.com	400	pro_4
2	Dustin	Poirier	dustin@ufc.com	700	pro_7

Q75: Write a SQL statement to make a list in ascending order for the sellers, display the buyer's name, city, budget, and seller's name & city.

```
SELECT BUYER.BNAME, BUYER.BCITY, BUYER.BUDGET, SELLER.SNAME, SELLER.SCITY
FROM BUYER
RIGHT JOIN SELLER ON BUYER.SID = SELLER.SID
ORDER BY SELLER.SID;
```

BNAME	BCITY	BUDGET	SNAME	SCITY
manya	lucknow	2000	aditi	delhi
rahul	jammu	1000	aditi	delhi
roshni	chandigarh	2000	anchit	mumbai
ankush	delhi	3000	rohit	chennai
himanshu	jaipur	1000	virat	kolkata
anjali	dehradun	NULL	taimur	indore

Q76: Write a SQL query to list all sellers along with the buyer's name, buyer city, budget, product ID, purchased date, and purchased amount to find that either any of the existing sellers have sold any product or not.

```
SELECT BUYER.BNAME, BUYER.BCITY, BUYER.BUDGET, SELLER.SNAME, PRODUCT.PID,
PRODUCT.PDATE, PRODUCT.AMOUNT
FROM BUYER
RIGHT JOIN SELLER ON BUYER.SID = SELLER.SID
RIGHT JOIN PRODUCT ON BUYER.BID = PRODUCT.BID;
```

BNAME	BCITY	BUDGET	SNAME	PID	PDATE	AMOUNT
rahul	jammu	1000	aditi	21	2022-01-11	500
roshni	chandigarh	2000	anchit	22	2022-02-12	300
ankush	delhi	3000	rohit	23	2022-02-17	1000
himanshu	jaipur	1000	virat	24	2022-03-14	600
manya	lucknow	2000	aditi	25	2022-06-16	700
anjali	dehradun	NULL	taimur	26	2022-08-18	800
roshni	chandigarh	2000	anchit	27	2022-11-26	500

Q77: List out all the combinations possible for the employee's name and projects that can exist(NULL included).

```
SELECT EMPLOYEE.EMPNAME, EMPLOYEE.EMPLNAME, PROJECT.PROJECTID
FROM EMPLOYEE
CROSS JOIN PROJECT;
```

EMPNAME	EMPLNAME	PROJECTID
Priyanshu	Gupta	100
Harleen	Kaur	100
Vishwas	Aanand	100
Sahil	Kumar	100
Riya	Khanna	100
Priyanshu	Gupta	200
Harleen	Kaur	200
Vishwas	Aanand	200
Sahil	Kumar	200
Riya	Khanna	200
Priyanshu	Gupta	300
Harleen	Kaur	300
Vishwas	Aanand	300
Sahil	Kumar	300
Riya	Khanna	300
Priyanshu	Gupta	400
Harleen	Kaur	400
Vishwas	Aanand	400
Sahil	Kumar	400
Riya	Khanna	400
Priyanshu	Gupta	500
Harleen	Kaur	500
Vishwas	Aanand	500
Sahil	Kumar	500
Riya	Khanna	500
Priyanshu	Gupta	600
Harleen	Kaur	600
Vishwas	Aanand	600
Sahil	Kumar	600
Riya	Khanna	600
Priyanshu	Gupta	700
Harleen	Kaur	700
Vishwas	Aanand	700
Sahil	Kumar	700
Riya	Khanna	700
Priyanshu	Gupta	800
Harleen	Kaur	800
Vishwas	Aanand	800
Sahil	Kumar	800
Riya	Khanna	800

Q78: Write a SQL query to make a list with the buyer's name, buyer's city, product id, purchased date and the amount for only those buyers in the table who must have a budget.

```
SELECT BUYER.BNAME, BUYER.BCITY, PRODUCT.PID, PRODUCT.PDATE,
PRODUCT.AMOUNT
FROM BUYER
LEFT JOIN PRODUCT
ON BUYER.BID = PRODUCT.BID
WHERE BUYER.BUDGET IS NOT NULL
```

UNION

```
SELECT BUYER.BNAME, BUYER.BCITY, PRODUCT.PID, PRODUCT.PDATE,
PRODUCT.AMOUNT
FROM BUYER
RIGHT JOIN PRODUCT
ON BUYER.BID = PRODUCT.BID
WHERE BUYER.BUDGET IS NOT NULL;
```

BNAME	BCITY	PID	PDATE	AMOUNT
rahul	jammu	21	2022-01-11	500
roshni	chandigarh	27	2022-11-26	500
roshni	chandigarh	22	2022-02-12	300
ankush	delhi	23	2022-02-17	1000
himanshu	jaipur	24	2022-03-14	600
manya	lucknow	25	2022-06-16	700

Q79: Formulate a MySQL query to list out all the projects(id, name) and employee's names (first, last) along with their respective Email id's irrespective of the fact if that project is assigned or not and whether an employee is assigned any project or none.

```
SELECT PROJECT.PROJECTID, PROJECT.PROJECTNAME, EMPLOYEE.EMPNAME,
EMPLOYEE.EMPLNAME, EMPLOYEE.EMAILID
FROM PROJECT
LEFT JOIN EMPLOYEE
ON PROJECT.EMPID = EMPLOYEE.EMPID
```

UNION

```
SELECT PROJECT.PROJECTID, PROJECT.PROJECTNAME, EMPLOYEE.EMPNAME,
EMPLOYEE.EMPLNAME, EMPLOYEE.EMAILID
FROM PROJECT
RIGHT JOIN EMPLOYEE
ON PROJECT.EMPID = EMPLOYEE.EMPID;
```

PROJECTID	PROJECTNAME	EMPNAME	EMPLNAME	EMAILID
100	pro_1	Riya	Khanna	riya@abc.com
200	pro_2	Sahil	Kumar	sahil@abc.com
300	pro_3	Vishwas	Aanand	vishwas@abc.com
400	pro_4	Vishwas	Aanand	vishwas@abc.com
500	pro_5	Priyanshu	Gupta	priyanshu@abc.com
600	pro_6	NULL	NULL	NULL
700	pro_7	NULL	NULL	NULL
800	pro_8	NULL	NULL	NULL
NULL	NULL	Harleen	Kaur	harleen@abc.com