

## EX-7 JOINS

```
DBMS Practical.pdf x +
SQL Plus x + v
SQL> CREATE TABLE Student
2 (
3 admission_no varchar (8) NOT NULL ,
4 first_name varchar (30) NOT NULL ,
5 last_name varchar (30) NOT NULL ,
6 age number ,
7 city varchar (40)
8 ) ;

Table created.

SQL> CREATE TABLE Fee
2 (
3 admission_no varchar (8) NOT NULL ,
4 course varchar (30) NOT NULL ,
5 amount_paid number
6 ) ;

Table created.

SQL> INSERT INTO Student VALUES( '3354','LUISA','EVANS',13,'TEXAS' );

1 row created.

SQL> INSERT INTO Student VALUES( '2135','PAUL','WARD',15,'ALASKA');

1 row created.

SQL> INSERT INTO Student VALUES( '4321','PETER','BENNETT',14,'CALIFORNIA' );
```

```
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SQL Plus x + v
1 row created.

SQL> INSERT INTO Student VALUES( '4213','CARLOS','PATTERSON',17,'NEW YORK' );

1 row created.

SQL> INSERT INTO Student VALUES( '5112','ROSE','HUGES',16,'FLORIDA' );

1 row created.

SQL> INSERT INTO Student VALUES( '6113','MARIELIA','SIMMONS',15,'ARIZONA' );

1 row created.

SQL> INSERT INTO Student VALUES( '7555','ANTONIA','BUTLER',14,'NEW YORK' );

1 row created.

SQL> INSERT INTO Student VALUES( '8345','DIEGO','COX',13,'CALIFORNIA' );

1 row created.

SQL> INSERT INTO Fee VALUES( '3354','Java',20000 );

1 row created.

SQL> INSERT INTO Fee VALUES( '7555','Android',22000 );

1 row created.
```

```
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SQL Plus x + v
SQL> INSERT INTO Fee VALUES( '4321','Python',18000 );
1 row created.
SQL> INSERT INTO Fee VALUES( '8345','SQL',15000 );
1 row created.
SQL> INSERT INTO Fee VALUES( '5112','Machine Learning',30000 );
1 row created.
SQL> SELECT Student.admission_no, Student.first_name, Student.last_name,
2 Fee.course, Fee.amount_paid FROM Student INNER JOIN Fee ON
3 Student.admission_no = Fee.admission_no ;
```

ADMISSIO	FIRST_NAME	LAST_NAME	COURSE	AMOUNT_PAID
3354	LUISA	EVANS	Java	20000
4321	PETER	BENNETT	Python	18000
5112	ROSE	HUGES	Machine Learning	30000

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```
DBMS Practical.pdf x +
SQL Plus x + v
ADMISSIO FIRST_NAME LAST_NAME
-----
COURSE AMOUNT_PAID
-----
7555 ANTONIA BUTLER
Android 22000
8345 DIEGO COX
SQL 15000
SQL> SELECT Student.admission_no, Student.first_name, Student.last_name,
2 Fee.course, Fee.amount_paid FROM Student CROSS JOIN Fee WHERE
3 Student.admission_no = Fee.admission_no ;
```

ADMISSIO	FIRST_NAME	LAST_NAME	COURSE	AMOUNT_PAID
3354	LUISA	EVANS	Java	20000
4321	PETER	BENNETT	Python	18000
5112	ROSE	HUGES	Machine Learning	30000

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DBMS Practical.pdf

SQL Plus

ADMISSIO	FIRST_NAME	LAST_NAME
7555	ANTONIA	BUTLER
Android		22000
8345	DIEGO	COX
SQL		15000

```
SQL> SELECT Student.admission_no, Student.first_name, Student.last_name,  
2 Fee.course, Fee.amount_paid FROM Student LEFT OUTER JOIN Fee ON  
3 Student.admission_no = Fee.admission_no ;
```

ADMISSIO	FIRST_NAME	LAST_NAME
3354	LUISA	EVANS
Java		20000
7555	ANTONIA	BUTLER
Android		22000
4321	PETER	BENNETT
Python		18000

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SQL Plus

ADMISSIO	FIRST_NAME	LAST_NAME
8345	DIEGO	COX
SQL		15000
5112	ROSE	HUGES
Machine Learning		30000
2135	PAUL	WARD

ADMISSIO	FIRST_NAME	LAST_NAME
4213	CARLOS	PATTERSON
6113	MARIELIA	SIMMONS

8 rows selected.

```
SQL> SELECT Student.admission_no, Student.first_name, Student.last_name,  
2 Fee.course, Fee.amount_paid FROM Student RIGHT OUTER JOIN Fee ON
```

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SQL Plus

```
SQL> SELECT Student.admission_no, Student.first_name, Student.last_name,
2 Fee.course, Fee.amount_paid FROM Student RIGHT OUTER JOIN Fee ON
3 Student.admission_no = Fee.admission_no ;
```

ADMISSIO	FIRST_NAME	LAST_NAME
3354	LUISA	EVANS
Java		20000
4321	PETER	BENNETT
Python		18000
5112	ROSE	HUGES
Machine Learning		30000

ADMISSIO	FIRST_NAME	LAST_NAME
7555	ANTONIA	BUTLER
Android		22000
8345	DIEGO	COX
SQL		15000

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SQL Plus

```
SQL> SELECT Student.admission_no, Student.first_name, Student.last_name,
2 Fee.course, Fee.amount_paid FROM Student FULL OUTER JOIN Fee ON
3 Student.admission_no = Fee.admission_no ;
```

ADMISSIO	FIRST_NAME	LAST_NAME
3354	LUISA	EVANS
Java		20000
2135	PAUL	WARD
4321	PETER	BENNETT
Python		18000

ADMISSIO	FIRST_NAME	LAST_NAME
4213	CARLOS	PATTERSON
5112	ROSE	HUGES
Machine Learning		30000
6113	MARIELIA	SIMMONS

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SQL Plus

ADMISSIO	FIRST_NAME	LAST_NAME
4213	CARLOS	PATTERSON
5112	ROSE	HUGES
Machine Learning		30000
6113	MARIELIA	SIMMONS

  

ADMISSIO	FIRST_NAME	LAST_NAME
7555	ANTONIA	BUTLER
Android		22000
8345	DIEGO	COX
SQL		15000

8 rows selected.

SQL>  
SQL>

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