

## FDT Worksheet Week 2

### Joins

Database: dvdrental

#### 1. Show details of rentals with completed payments

```
SELECT * FROM
rental INNER JOIN payment
ON rental.rental_id = payment.rental_id
```

#### 2. For each rental, show the name of the customer and the name of the staff member who processed the rental.

```
SELECT
customer.first_name || ' ' || customer.last_name as customer_name, staff.first_name || ' ' || staff.last_name AS
staff_name
FROM
customer INNER JOIN rental
ON customer.customer_id = rental.customer_id
INNER JOIN staff ON rental.staff_id = staff.staff_id
```

#### 3. For each rental, show the name of the customer and the name of the staff members who processed the payments for that rental.

```
SELECT
customer.first_name || ' ' || customer.last_name as customer_name, staff.first_name || ' ' || staff.last_name AS
staff_name
FROM
customer INNER JOIN rental
ON customer.customer_id = rental.customer_id
INNER JOIN payment
ON rental.rental_id = payment.rental_id
INNER JOIN staff ON payment.staff_id = staff.staff_id
```

#### 4. Show details of all rentals, even if they have not been paid for, with payment information where it exists

```
SELECT * FROM
rental LEFT JOIN payment
ON rental.rental_id = payment.rental_id
```

#### 5. Show details of rentals which have not been paid for

```
SELECT * FROM
rental LEFT JOIN payment
ON rental.rental_id = payment.rental_id
WHERE payment.payment_id IS NULL
```

#### 6. Find all the films which are not in the inventory for any store.

```
SELECT * FROM film
LEFT OUTER JOIN inventory
ON inventory.film_id = film.film_id
WHERE inventory.film_id IS NULL
```

#### 7. Find all the rentals rented by Barbara Jones.

```
SELECT * FROM rental
INNER JOIN customer
ON rental.customer_id = customer.customer_id
WHERE customer.first_name='Barbara' AND customer.last_name='Jones'
```