

• Open Microsoft Access and create a blank database and then work through the SLQ commands below.

CREATE Table Query

1. CREATE TABLE – Using the SQL command create a table called DVD by creating and running the following SQL query:

(catalogNo long not null,
title varchar(50) not null,
genre varchar(20) not null,
rating varchar(6) not null,
PRIMARY KEY (catalogNo));

Modifying columns and rows

1. **INSERT ROW -** Using the SQL command populate your table with data shown in the table

INSERT INTO DVD (catalogNo, title, genre, rating)
Values (207132, 'Casino Royale', 'Action', "PG-13");

catalogNo	title	genre	rating
207132	Casino Royale	Action	PG-13
902355	Harry Potter and the GOF	Children	PG
330553	Lord of the Ring III	Action	PG-13
781132	Shrek 2	Children	PG
445624	Mission Impossible	Action	PG-13
634817	Patington Bear	Children	U



2. **INSERT COLUMN -** Using the SLQ command insert another column into the table and populate your table with data shown in the table

ALTER TABLE DVD

ADD COLUMN RentalCost Currency;

catalogNo	title	genre	rating	rentalCost
207132	Casino Royale	Action	PG-13	£5.00
902355	Harry Potter and the GOF	Children	PG	£4.99
330553	Lord of the Ring III	Action	PG-13	£2.50
781132	Shrek 2	Children	PG	£6.32
445624	Mission Impossible	Action	PG-13	£7.14
634817	Paddington Bear	Children	U	£10.00

3. UPDATE COLUMN - Using the SLQ command update alter the rental cost for the film Casino Royale to £1.00

UPDATE DVD

SET rentalcost=1.00

WHERE catalogNO=207132;

4. **DELETE ROW –** using the SQL command delete a row of data from a table

DELETE *

FROM DVD

WHERE title ='War of the Worlds';

Viewing columns and rows

1. **SELECT -** Using the SQL command list full details of all DVD's



SELECT catalogNo, title, genre, rating, rentalcost FROM DVD;

Or

SELECT *
FROM DVD;

2. SELECT - Using the SQL command list all DVD genres

SELECT genres
FROM DVD;

3. SELECT - Using the SQL command list all DVD genres, but remove duplicate results from the result.

SELECT DISTINCT genres
FROM DVD;

4. SELECT - Using the SQL command list all DVDs, and sort in order of genre.

SELECT *
FROM DVD
ORDER BY genre DESC;

SELECT *
FROM DVD
ORDER BY genre ASC;

Structured Query Language (SQL) Practical

1. Calculated Fields - List the combined rental values for Casino Royale and Shrek



SELECT sum(rentalcost) as 'RentalCost'

FROM DVD

WHERE title like 'Shrek' or title like 'casino royale';

2. Comparison Search Condition - List all rental values which are greater than £5.00

SELECT catalogNo, title, rentalcost

FROM DVD

WHERE rentalcost > 5.00;

3. Range Search Condition AND - List all rentals within the between £5.00 and £10.00.

SELECT catalogNo, title, rentalcost

FROM DVD

WHERE rentalcost > £5.00 AND rentalcost < £10.00;

4. Range Search Condition BETWEEN - List all rentals within the between £5.00 and £10.00.

SELECT catalogNo, title, rentalcost

FROM DVD

WHERE rentalcost BETWEEN 2.00 and 10.00;

5. Set Membership Condition OR - List all DVDs in the Sci-Fi or Children genres.



SELECT catalogNo, title, genres

FROM DVD

WHERE genre="Sci-Fi" OR genre="Children";