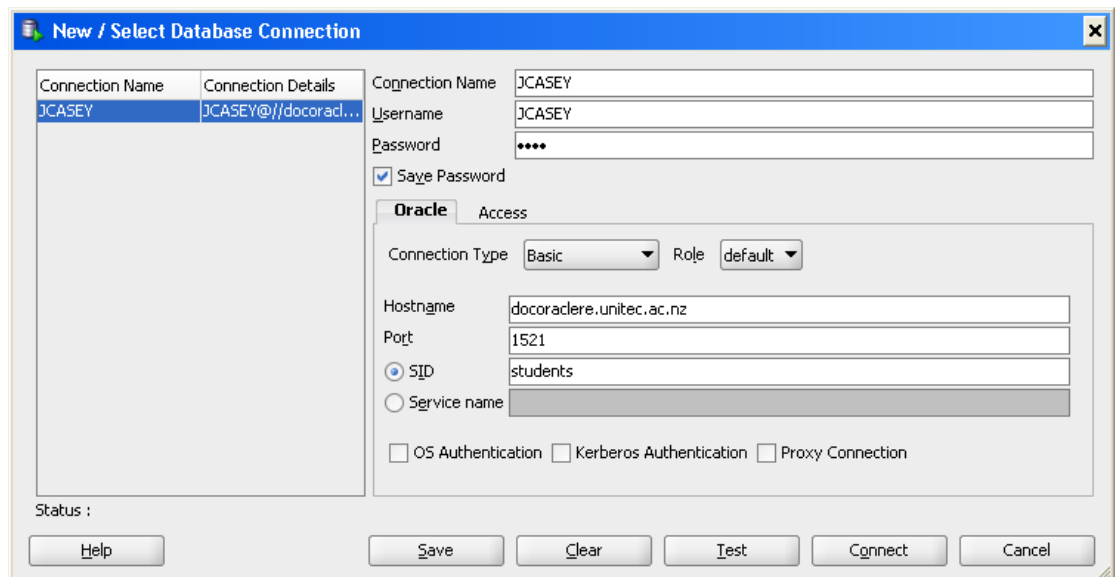# ISCG7436 – Enterprise Java Programming
Lab Session 1

SQL Revision + JDBC Fundamentals

1. Connect to your allocated Oracle database space using SQL Developer and the settings shown below:

Hostname: docoraclere.unitec.ac.nz
Port: 1521
SID: students

Note. You will need to supply your own username/password. For students this should be your normal unitec login id and your DOB in dd/mm/yyyy format including the slashes.

2. Create and populate the BOOK table using the following SQL script

```sql
CREATE TABLE BOOK
(
  BOOK_ID NUMBER NOT NULL,
  TITLE varchar2(50),
      AUTHOR varchar2(50),
      GENRE varchar2(50),
      ISBN varchar2(50),
      BLURB varchar2(250),
  CONSTRAINT TABLE1_PK PRIMARY KEY (BOOK_ID) ENABLE
);

insert into Book (BOOK_ID,TITLE, AUTHOR, GENRE, ISBN, BLURB)
values (1,'Gone with the wind','Margaret Mitchell',
'Classic','1451635621','blah blah blah');

insert into Book (BOOK_ID,TITLE, AUTHOR, GENRE, ISBN, BLURB)
values (2,'A Clock Work Orange','Anthony Burgess','Dystopian
Novella','0393312836','blah blah blah');
```

```
insert into Book (BOOK_ID,TITLE, AUTHOR, GENRE, ISBN, BLURB)
values (3,'2001: A Space Odyssey','Arthur C Clarke','Science
Fiction','0451457994','blah blah blah');

insert into Book (BOOK_ID,TITLE, AUTHOR, GENRE, ISBN, BLURB)
values (4,'Make Room! Make Room!','Harry Harrison',
'Science Fiction','0765318857','blah blah blah');

insert into Book (BOOK_ID,TITLE, AUTHOR, GENRE, ISBN, BLURB)
values (5,'The Catcher in the Rye','JD Salinger',
'General','0316769177','blah blah blah');
```

3. Create a Java program to query the book table and display every record in the table
4. Create a variant of the Java program you created in step 5 to display all the Science Fiction books.
5. Create a JSP application to connect to the database and display all of the books in the database.
6. Alter the output so that entire table contents is output properly using HTML table tags – you will need to use both the ResultSet and the ResultSetMetaData objects.
7. Create a JSP application that is able to alter a user's query based on input from a HTML form using a simple HTML text field and submit button.

Genre:	Science Fiction			Go
Title		**Author**	**Genre**	**...**
A Clock Work Orange		Anthony Burgess	...	
...		...	...	