STEPHEN F. AUSTIN STATE UNIVERSITY

CSC 333

LAB 4 — RELATIONS AND DATABASES SAMUEL JENTSCH

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Problem 6:
Restrict Author where Country = "U.S." giving Results1
SELECT *
FROM Author
WHERE Country = "U.S.";
mysql> SELECT *
   -> FROM Author
   -> WHERE Country = "U.S.";
+----+
| Aid | Name | Country | Title
4 | Bert Kovalsco | U.S. | Baskets for Today |
 8 | Jane East | U.S. | Springtime Gardening |
2 rows in set (0.00 \text{ sec})
Problem 8:
Restrict Book where Publisher = "Bellman" or Publisher = "Swift-Key" giving
Results3
SELECT *
FROM Book
WHERE Publisher = "Bellman"
OR Publisher = "Swift-Key";
mysql> SELECT *
   -> FROM Book
   -> WHERE Publisher = "Bellman"
   -> OR Publisher = "Swift-Key";
+----+----+----+
| Bid | Title | ISBN | Publisher | Subject |
2 | Early Tang Paintings | 0-364-87547-X | Bellman | Art |
  4 | Springtime Gardening | 0-56-000142-8 | Swift-Key | Nature |
2 rows in set (0.00 sec)
```

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Problem 9:
Restrict Book where Publisher = "Harding" and Subject = "Art" giving Results4
SELECT *
FROM Book
WHERE Publisher = "Harding"
AND Subject = "Art";
mysql> SELECT *
   -> FROM Book
   -> WHERE Publisher = "Harding"
   -> AND Subject = "Art";
+----+
| Bid | Title | ISBN | Publisher | Subject |
| 5 | Baskets for Today | 0-816-53705-4 | Harding | Art
1 row in set (0.00 sec)
Problem 11:
Project Author over (Name, Country) giving Results6
SELECT Name, Country
FROM Author;
mysql> SELECT Name, Country
   -> FROM Author;
+----+
| Name | Country |
+----+
| Dorothy King | England |
| Jon Nkoma | Kenya |
| Won Lau | China |
| Bert Kovalsco | U.S.
| Tom Quercos | Mexico |
| Jimmy Chan | China
Dorothy King | England |
| Jane East | U.S.
```

8 rows in set (0.00 sec)

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Problem 12:
Project Book over (Publisher, Subject) giving Results7
SELECT Publisher, Subject
FROM Book;
mysql> SELECT Publisher, Subject
   -> FROM Book;
+-----+
| Publisher | Subject |
+----+
| Harding | Nature
| Bellman
         | Art
         | Nature
| Loraine
| Swift-Key | Nature
| Harding | Art
         | Nature
| Harding
6 rows in set (0.00 sec)
Problem 14:
Join Book and Writes over Title and ISBN giving Results9
SELECT *
```

From Book

JOIN Writes USING (Title, ISBN);

mysql> SELECT *

- -> From Book
- -> JOIN Writes USING (Title, ISBN);

Title	+					+		+
Springtime Gardening 0-816-35421-9 1 Harding Nature 7 Dorothy King Early Tang Paintings 0-364-87547-X 2 Bellman Art 1 Jimmy Chan Early Tang Paintings 0-364-87547-X 2 Bellman Art 5 Won Lau Birds of Africa 0-115-01214-1 3 Loraine Nature 6 Jon Nkoma Springtime Gardening 0-56-000142-8 4 Swift-Key Nature 3 Jane East Baskets for Today 0-816-53705-4 5 Harding Art 4 Bert Kovalsco		-		•				<u> </u>
- Matamir Miniatis 0 010 00300 0 0 Mataring Mataric 2 Dolotiny King	Springtime Gardening Early Tang Paintings Early Tang Paintings Birds of Africa Springtime Gardening	0-816-35421-9 0-364-87547-X 0-364-87547-X 0-115-01214-1 0-56-000142-8	1 2 2 3 4 5	Harding Bellman Bellman Loraine Swift-Key	Nature Art Art Nature Nature	7 1 1 5 6 3 4	Dorothy King Jimmy Chan Won Lau Jon Nkoma Jane East	+

7 rows in set (0.00 sec)

Problem 16:

What would be wrong with doing a join of Author and Book over Title?

The titles are not unique. There are two instances of "Springtime Gardening" in each table, so a join will not be able to differentiate between the two.

Problem 18:

Give the names of all authors who publish with Harding.

Book contains publisher information.

3 rows in set (0.00 sec)