Compsci 557 Homework 6

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Chapter 10 # 1, 6, 8, 9

1)

6)

8)

|  |  |
| --- | --- |
| Time | Step |
| 1 | Lock INVOICE |
| 2 | Insert row 10983 into INVOICE |
| 3 | Unlock INVOICE |
| 4 | Lock LINE |
| 5 | Insert into row 10983, 1 into LINE |
| 6 | Unlock LINE |
| 7 | Lock PRODUCT |
| 8 | Update PRODUCT 11QER/31, P\_QTYOH from 47 to 46 |
| 9 | Unlock PRODUCT |
| 10 | Lock CUSTOMER |
| 11 | Update CUSTOMER 10010, CUS\_BALANCE from 345.67 to 464.47 |
| 12 | Update CUSTOMER 10010, CUS\_DATELSTPUR from 05-May-2010 to 11-May-2012 |
| 13 | Unlock CUSTOMER |

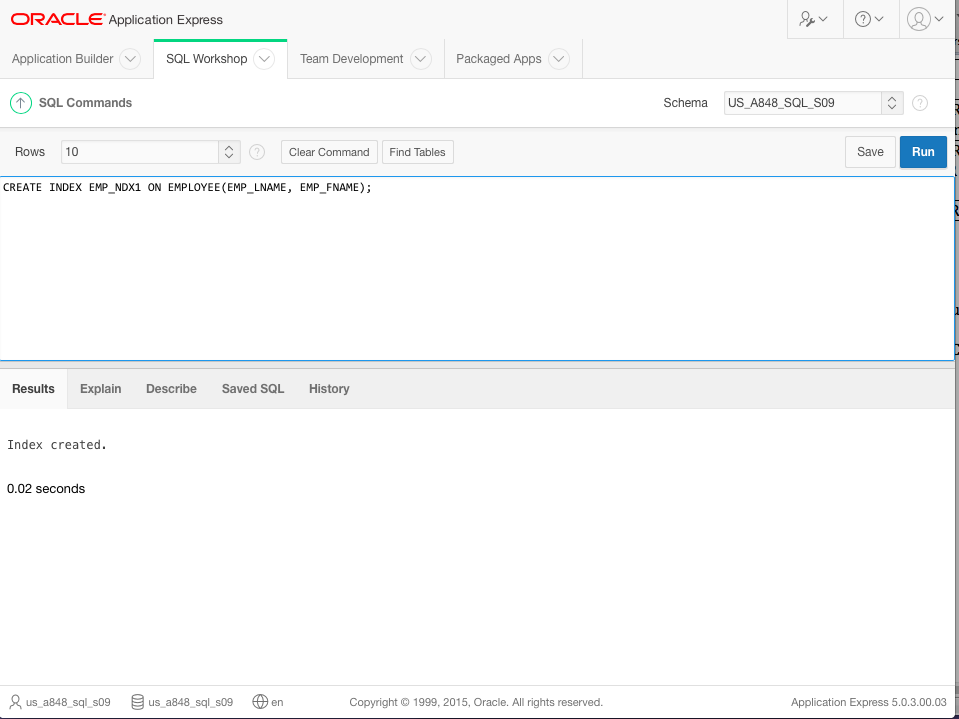
9)

Chapter 11 # 1, 2, 4, 5, 6

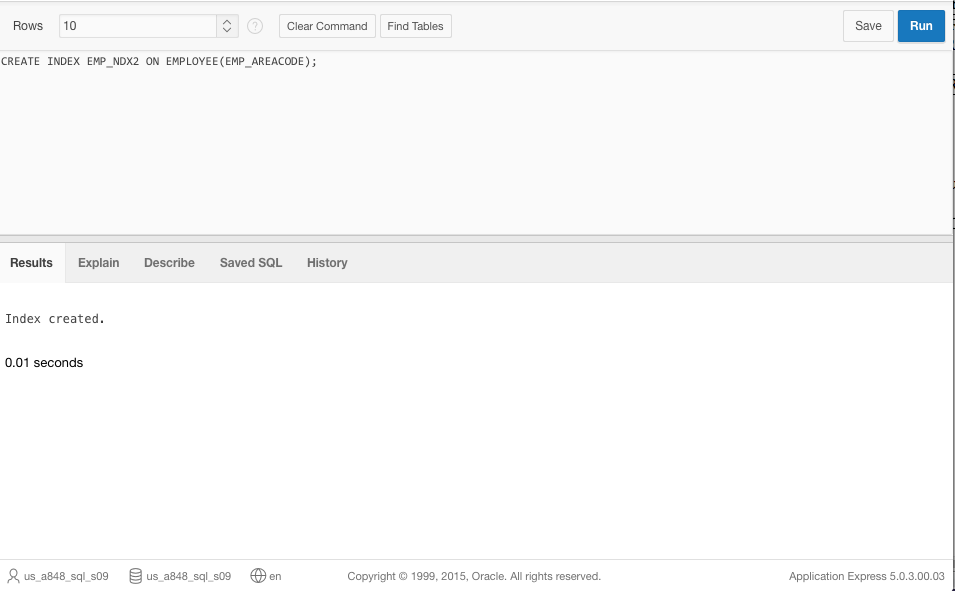
1) There are only two possible outcomes for the EMP\_SEX column, M or F. Therefore, EMP\_SEX has low sparsity.

2) Based on the code, we should create indexes in EMP\_AREACODE and a combination of EMP\_LNAME and EMP\_FNAME.

INDEX 1:



INDEX 2:



4)The EMP\_DOB will have a high data sparsity because there are many different birthdates out there.

5)If you create an index in EMP\_DOB, it will not help this query because it uses the YEAR function.

6) It will probably use the Table Scan (Full) to read in all the rows of the EMPLOYEE table. The first operation in the table 11.3.