Sohal Patel

**Week 3 (The Relational Database Model)**

21. There are five attributes: EMP\_NUM, EMP\_LNAME, EMP\_INIT, EMP\_FNAME, DEPT\_CODE and JOB\_CODE. There are ten entities. The EMPLOYEE is the entity set. Attribute EMP\_NUM is the primary key because every entity is shown in each row by the EMP\_NUMs. The JOB\_CODE and DEPT\_CODE are the foreign keys because they are probably linked to other table describing which department they work in and a description of what they do.

22. For DIRECTOR table's the primary key is DIR\_NUM and for PLAY table's the primary key is PLAY\_CODE.

23. The foreign key is DIR\_NUM in the PLAY table.

24.



25.



26. The PLAY table would be the reason for the proper index table. The index key would be the characteristic of DIR\_NUM.

|  |  |
| --- | --- |
| Index Key | The Connection to the PLAY table |
| 100 | 4 |
| 101 | 2, 5, 7 |
| 102 | 1, 3, 6 |

27.