 Province of the

EASTERN CAPE

EDUCATION

**DIRECTORATE SENIOR CURRICULUM MANAGEMENT (SEN-FET)**

**HOME SCHOOLING SELF-STUDY WORKSHEET**

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| **SUBJECT** | INFORMATION TECHNOLOGY THEORY | **GRADE** | 11 | **DATE** | 24 August to 28 Augustl 2020 |
| **TOPIC** | Database Design – Creating a simple database. | **TERM 3**  **REVISION** | (Please tick) | **TERM 3 CONTENT** | ✓ |
| **TIME ALLOCATION** | 1hr | **TIPS TO KEEP HEALTHY**  1. **WASH YOUR HANDS** thoroughly with soap and water for at least 20 seconds. Alternatively, use hand sanitizer with an alcohol content of at least 60%.  2. **PRACTISE SOCIAL DISTANCING** – keep a distance of 1m away from other people.  3. **PRACTISE GOOD RESPIRATORY HYGIENE**: cough or sneeze into your elbow or tissue and dispose of the tissue immediately after use.  4. **TRY NOT TO TOUCH YOUR FACE.** The virus can be transferred from your hands to your nose, mouth and eyes. It can then enter your body and make you sick.  5. **STAY AT HOME.** | | | |
| **INSTRUCTIONS** | Resources used// Most of this week’s work is taken from the New DBE book   * Its gr8! @ grade11 theory, Study Opportunities * Information Technology Theory Book Grade 11 , DBE * Past Exam Papers   Answer all questions |
|  | 1 You have been asked to create a book database for your local library. The database needs to store the following  information:  Book name  Language  Release date  Publisher name  Copies in library  Author name and surname  Date of birth  Nationality  Based on this scenario, answer the following questions.  a. How many tables will you need to record this information?  b. What will the tables be called?  2 Your school is trying to build a database of all the students and their sports. You have been asked to update the  school’s database to record this information. This will consist of adding the following fields:  Student name and surname  Birthdate  Grade  Sport  Team  Team coach  Practice days and times  a. How many tables will you need to record this information.  b. What will the tables be called?  c. Do the fields include a primary key?  d. Can student name and surname be used as a primary key? Give reasons for your answer.  e. Which of the fields above are not atomic? How would you split these fields?  3 Complete the following tasks for both databases.  a. If required, install the database software on your computer.  b. Create the “books” and “sports” databases.  c. Add the required tables to the databases.  d. Add fields of the correct type to the tables. | | | | |